

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

May 6, 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, May 13, 2020, at 11:30 a.m.** **This will be a virtual meeting.**

Until further notice, all meetings will be held online to reduce the spread of COVID-19. To join a 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.

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

Z:\Elm Creek\Meetings\Meetings 2020\05 Notice_reg meeting.docx

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AGENDA Regular Meeting May 13, 2020

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

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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.*
3. Open Forum.
4. Action Items.
 - a. Project Reviews – *see Staff Report*.*
 - b. Consider preliminary 2021 Operating Budget.*
5. Old Business.
6. New Business.
7. Communications. (*Also see Staff Report*.*)
 - a. 2019 Annual Activity Report - <http://www.elmcreekwatershed.org/annual-reports.html>
8. Education.
 - a. WMWA – next meeting is scheduled for June 9, 2020, at 8:30 a.m. This is a **virtual** meeting.
9. Grant Opportunities and Updates.

(over)

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

10. Project Reviews.

item 01a

Item No.	A	E	I R PFI	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.
a.	A	E			2017-039	Rush Creek Apartments, Maple Grove.
b.					2017-050W	Ernie Mayers Wetland/floodplain violation, Corcoran.
c.					2018-020	North 101 Storage, Rogers.
ao.				AR	2018-026	Windrose, Maple Grove.
ap.				AR	2018-028	Tricare Third Addition, Maple Grove.
aq.				AR	2018-044	OSI Phase II, Medina.
d.					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.
e.					2019-024	Boston Scientific, Maple Grove.
av.				AR	2019-027	Havenwood at Maple Grove.
f.					2019-030	Rolling Hills Acres, Corcoran.
aw.				AR	2019-032	OSI Expansion, Medina.
g.					2020-001	Outlot L, Markets at Rush Creek, Maple Grove.
h.					2020-002	Project 100, Maple Grove.
i.					2020-004	Elm Road Area Project, Maple Grove.
j.			R		2020-006	Zachary Villas of Dayton
k.			R		2020-007	Pineview/Oakview Lanes North Improvements, Dayton.
l.					2020-008	Ione Gardens, Dayton.
m.	A	E			2020-009	Stetler Barn, Medina.
n.	A	E			2020-010	Birchwood, Rogers.
o.	A	E			2020-011	Bellwether 4th/5th Addition, Corcoran.
p.					2020-012	Wayzata HS Parking Lot, Plymouth.

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

11. Other Business.

12. Adjournment.

Z:\Elm Creek\Meetings\Meetings 2020\04 Regular Meeting Agenda.docx

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

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

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Regular Meeting Minutes April 8, 2020

I. A virtual meeting of the Elm Creek Watershed Management Commission was called to order at 11:43 a.m., Wednesday, April 8, 2020, by Chair Doug Baines.

Present were: Bill Walraven, Champlin; Ken Guenther, 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); Brian Vlach, Three Rivers Park District (TRPD); Jim Herbert and Joe Waln, Barr Engineering; James Kujawa, Surface Water Solutions; and Amy Juntunen and Judie Anderson, JASS.

Not represented: Rogers.

Also present: Todd Tuominen, Champlin; Kevin Mattson, Corcoran; Nico Cantrero, Wenck Assocs., Dayton; Derek Asche and Mark Lahtinen, Maple Grove; Jake Gateman, Fred Moore, Ben Scharenbroich and Amy Riegel, Plymouth; and Andrew Simmons, Rogers.

A. Motion by Weir, second by Guenther to approve the **agenda** as revised .** Motion carried unanimously.*

B. Motion by Weir, second by Guenther to approve the **minutes*** of the March 11, 2020 regular meeting. *Motion carried unanimously.*

C. Motion by Guenther, second by Weir to approve the April **Treasurer's Report and Claims*** totaling \$31,669.19. *Motion carried unanimously.*

II. Open Forum.

III. Action Items.

A. **Project Review 2020-004 Elm Road Area Project, Maple Grove.*** This is approximately 60 acres consisting of nine large residential parcels proposed to be developed into 106 single-family residential lots in two phases. It is located along Elm Road near the border of Plymouth. Updated plans were received on March 26, 2020. The project was reviewed for Rules D, E, F, G, H, and I. In their findings dated April 2, 2020 Staff recommended approval contingent upon appropriate skimming of floatables for the low-flow pipe running into filter basins 1 and 1W and compliance with all State and City WCA requirements. Motion by Weir, second by Guenther to approve this project subject to Staff's recommendations. *Motion carried unanimously.*

B. **Project Review 2020-006 Zachary Villas of Dayton.*** This project consists of three parcels totaling 5.74 acres located just south of Diamond Lake Road on the border with Champlin. Fourteen single family residential lots are proposed. Staff reviewed the project for compliance with Rules D and E. Staff's recommendation is for approval. Staff findings dated March 26, 2020 are included in this month's packet. Motion by Weir, second by Trainor to approve this project. *Motion carried unanimously.*

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

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

elm creek Watershed Management Commission

Regular Meeting Minutes – April 8, 2020

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C. Project Review 2020-007 Pineview and Oakview Lanes North Improvements, Dayton.* The City of Dayton proposes to reconstruct and make improvements to Pineview and Oakview Lanes North and part of CSAH 121 due to an increase in traffic volume. Proposed improvements include a roundabout at the intersection of Pineview Lane and CSAH 121, installation of a multi-use trail along the west side of Pineview Lane, and general street construction, utility, and drainage improvements on Pineview and Oakview Lanes. The total new impervious areas on this project will be 1.92 acres. The Commission's standards require approval of linear projects that create one or more acre of new impervious surface. This review is for compliance to Rules F, D, and E. In their findings dated March 31, 2020, Staff recommends approval contingent upon (1) the wetland alterations meeting MN WCA and LGU requirements; (2) the inlet and outlet pipes to the filtration pond being separated an adequate distance; and (3) the City being aware of the increase in runoff rates to the wetland sub-watershed. Motion by Weir, second by Guenther to approve this project subject to Staff's recommendations. *Motion carried unanimously.*

D. Motion by Weir, second by Guenther to approve **Amendment #1 of the Floodplain Modeling Grant Contract** with the DNR. The amendment extends the contract from April 30, 2020 to March 31, 2021. *Motion carried unanimously.*

E. Motion by Weir, second by Guenther to accept the draft **2019 Annual Activity Report** with revisions as provided later and as provided through member review by April 17. *Motion carried unanimously.*

IV. Old Business.**V. New Business.****VI. Communications.**

A. Included in the meeting packet is an April 1, 2020 update* from Barr Engineering regarding **Manufactured Treatment Devices (MTDs)**. More information will be provided as it becomes available.

B. Elm Creek Floodplain Mapping. Heather Hlavaty, Barr Engineering, provided an update on this project. It may be found in the April Staff Report. She estimates 40% of the budget has been expended to date.

VII. Education and Public Outreach.

A. Bassett Creek Watershed Management Commission sponsored a **Smart Salting workshop** at Plymouth City Hall on March 6, 2020. This is a free Level 1 MPCA Certification Course for parking lots and sidewalks. Because it was sold out a second workshop has been scheduled. [However, due to the COVID-19 pandemic, it has since been cancelled. Staff will check to determine if it will be rescheduled at a later date.]

B. WMWA. The **West Metro Water Alliance** will meet at 8:30 a.m., Tuesday, April 14, 2020, online.

1. Website/Social Media. Catherine Cesnik, the WMWA Coordinator, is refreshing the WMWA website and updating content. Any input is appreciated. westmetrowateralliance.org/. Cesnik has also taken over social media posting duties.

2. Cesnik will be reaching out to member cities over the next few months, starting with the TAC representatives, to better understand how WMWA can be a resource and to help fill education and outreach gaps. The WMWA steering committee particularly discussed options to collaborate on the new or enhanced education and outreach requirements in the draft MN NPDES General Permit.

elm creek Watershed Management Commission

Regular Meeting Minutes – April 8, 2020

Page 3

VIII. Grant Opportunities and Project Updates.

IX. Other Business.

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

B. Adjournment. There being no further business, the meeting was adjourned at 12:53 p.m.

Respectfully submitted,



Judie A. Anderson
Recording Secretary
JAA:tim

elm creek Watershed Management Commission

Regular Meeting Minutes – April 8, 2020

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Item No.					Project No.	Project Name
					W Denotes wetland project	
ah				AR	2014-015	Rogers Drive Extension, Rogers.
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ap.				AR	2018-028	Tricare Third Addition, Maple Grove.
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d.					2018-046	Graco, Rogers
ar.				AR	2018-048	Faithbrook Church Phase 2, Dayton.
as.					2019-001	Fernbrook View apartments, Maple Grove.
at.					2019-002	Parkside Villas, Champlin.
au.					2019-021	Brenly Meadows, Rogers.
e.					2019-024	Boston Scientific, Maple Grove.
av.					2019-027	Havenwood at Maple Grove.
f.					2019-030	Rolling Hills Acres, Corcoran.
g.			R		2019-031	Hassan Sand and Gravel Expansion, Rogers.
aw.					2019-032	OSI Expansion, Medina.
h.					2020-001	Outlot L, Markets at Rush Creek, Maple Grove.
i.					2020-002	Project 100, Maple Grove.
j.			R		2020-003	Palisades at Nottingham Second Addn., Maple Grove.
k.	A	E			2020-004	Elm Road Area Project, Maple Grove.
l.		E	R		2020-005	Territorial Road EAW, Rogers.
m.	A	E			2020-006	Zachary Villas of Dayton.
n.	A	E			2020-007	Pineview and Oakview Lanes Improvements, Dayton.
o.		E			2020-008	Ione Gardens, Dayton,

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RULE D - STORMWATER MANAGEMENT
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 RULE I - BUFFERS

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

Elm Creek Watershed Management Commission Treasurer's Report

		2020 Budget	April 2020	May 2020	2020 Budget YTD
EXPENSES					
Administrative		90,000	9,204.32	9,592.03	37,273.44
Watershed-wide TMDL Admin		300			0.00
Grant Writing		1,000			0.00
Website		3,000	134.80	64.35	525.80
Legal		2,000			31.00
Audit		5,000			0.00
Insurance		3,900			3,644.00
Miscellaneous/Contingency		1,000			0.00
Technical Support - HCEE		15,000			0.00
Floodplain Mapping 2019 HCEE					0.00
Floodplain Mapping 2019 Barr			1,441.00		0.00
Floodplain Mapping		39,360	7,560.50	1,291.00	34,902.50
Project Review Technical (Job 300)		185,000	5,987.50	3,482.38	17,823.88
Other Technical (Jobs 100 & 200)			6,714.00	10,502.00	27,783.00
Project Reviews - Admin		15,000	370.64	675.98	2,361.62
WCA - Technical		3,000			0.00
WCA - Legal		500			0.00
WCA - Admin		1,000			0.00
Stream Monitoring USGS		24,000			0.00
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	28.68	27.81	114.23
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	16.00	14.95	374.89
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	211.75	590.48	802.23
Plan Amendments		2,000			0.00
<i>Transfer to (from) Encumbered Funds (see below)</i>					0.00
<i>Transfer to (from) Capital Projects (see CIP Tr</i>		448,935			0.00
<i>Transfer to (from) Cash Sureties (see below)</i>					1,765.20
<i>Transfer to (from) Grants (see below)</i>		125,000	-	-	0.00
<i>To Fund Balance</i>					0.00
TOTAL - Month			31,669.19	26,240.98	134,026.79
TOTAL Paid in 2020, incl late 2019 Expenses		1,012,505.00	229,870.13	256,111.11	2020 Paid
			2019 Activity		

Elm Creek Watershed Management Commission Treasurer's Report

		2020 Budget	April 2020	May 2020	2020 Budget YTD
INCOME					
<i>From Fund Balance</i>					
Floodplain Modeling		39,360			
Project Review Fee		80,000	6,492.50		30,317.50
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	641.49		4,924.11
<i>Transfer to (from) Capital Projects (see CIP Tr</i>		448,935			0.00
<i>Transfer to (from) Cash Sureties (see below)</i>					
<i>Transfer to (from) Grants (see below)</i>		100,000	-	-	0.00
Misc Income					0.00
Total - Month			7,133.99	0.00	272,541.61
TOTAL Rec'd 2020, incl late 2019 Income		919,345.00	301,125.01	301,125.01	2020 Received
CASH SUMMARY		Balance Fwd			
Checking		0.00			
4M Fund		1,263,863.98	1,335,118.86	1,308,877.88	
Cash on Hand			1,335,118.86	1,308,877.88	
CASH SURETIES HELD		Balance Fwd			Activity 2020
WCA Escrows Received		11,494.47			0.00
WCA Escrow Reduced					2,351.20
Total Cash Sureties Held		11,494.47	9,143.27	9,143.27	
RESTRICTED / ENCUMBERED FUNDS		Balance Fwd			
<i>Restricted for CIPs</i>					0.00
<i>Enc. Studies / Project Identification / SWA</i>					0.00
Total Restricted / Encumbered Funds		0	0.00	0.00	
			April 2020	May 2020	2020 Budget YTD
GRANTS					
Fish Lake CWLA					
Revenue					-
Expense					-
Balance			-	-	-
Rush Creek SWA					
Revenue					-
Expense					-
Balance			-	-	-
BWSR Watershed-based Funding					
Revenue					-
Expense					-
Balance			-	-	-
TOTAL GRANTS					
Revenue			-	-	-
Expense			-	-	-
Balance			-	-	-

Elm Creek Watershed Management Commission Treasurer's Report

Claims Presented		General Ledger Account No	April	May	TOTAL
Campbell Knutson - Legal		521000			0.00
Connexus - Rain Gauge		551100		27.81	27.81
Barr Engineering					15,155.50
Floodplain Mapping		580440		1,291.00	
Project Review Technical (Job 300)		578050		3,362.50	
Other Technical (Jobs 100 & 200)		578050		10,502.00	
Ravinia Wetland Mitigation		240201			
Surface Water Solutions - Dropbox Plus		578050		119.88	119.88
JASS					10,937.79
Administration		511000		6,485.88	
TAC Support		511000		1,370.20	
Annual Report		511000		1,735.95	
Website		581000		64.35	
Project Reviews		578100		675.98	
WCA		579000			
WCA Reimbursable Ravinia		240201			
Plan Amendment		541500			
Education		590000		14.95	
CIPs General		563001		590.48	
Floodplain Mapping Admin		511000			
TOTAL CLAIMS					26,240.98



Account Number:
481113-238425

item 02b

ELM CREEK WATERSHED MGMT ORG

Monthly Statement

Service Address
ELM CREEK RD
DAYTON MN

Billing Summary

Billing Date: Apr 17, 2020

Previous Balance	\$28.68
Payments - Thank You!	\$28.68
Balance Forward	\$0.00
New Charges	\$27.81
Total Amount Due	\$27.81
Payment must be received on or before May 13, 2020	

Total Amount Due

\$27.81

Due Date

May 13, 2020

Message Center

Your Community, Your Choice

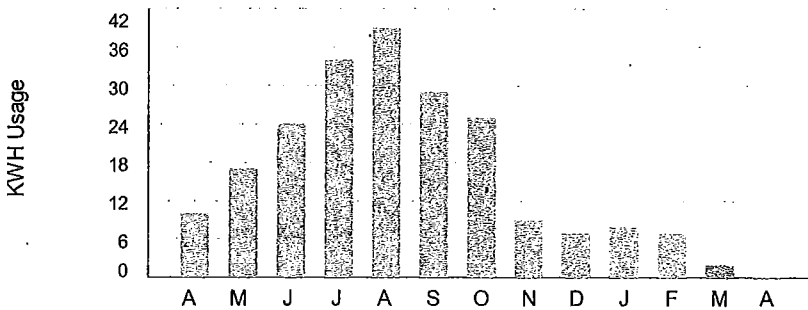
We are giving you the opportunity to help your favorite local organization. With our monthly "Your Community, Your Choice" online program, you pick the charity that receives a \$1,500 donation from Connexus Energy. Visit us at connexusenergy.com for more information.

\$125 rebate on Wi-Fi thermostats

Take advantage of our \$125 rebate when you sign up for our Wi-Fi PowerNap® air conditioning program. For more information, go to 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-007437/007038 AGY5JY S1-ET-M1-C00002 1



Account Number:

481113-238425

Total Amount Due

\$27.81

Payment Due By

May 13, 2020

007437 1 AB 0.416 003437/007437/007038 027 02 AGY5JY
ELM CREEK WATERSHED MGMT ORG
3235 FERNBROOK LN N
PLYMOUTH MN 55447-5325



Connexus Energy

PO Box 1808
Minneapolis, MN 55480-1808

00002781 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

May 1, 2020
 Invoice No: 23271759.00 - 5

Total this Invoice	\$1,291.00
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Regarding: Elm Creek Floodplain Mapping

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

- Delineation of stream centerlines for major tributaries in the watershed
- Identification of survey needs and cross-section locations
- Received and reviewed effective HEC-2 hydraulic models from the MnDNR along with past CLOMR/LOMRs in the watershed (4/27)
- Received and reviewed final hydrology comments from the MnDNR (4/24)

Total Contract Budget	Total Prior Billing	Billing this Invoice	Total Billing to Date	Budget Remaining
\$90,945.00	\$35,585.00	\$1,291.00	\$36,876.00	\$54,069.00

Professional Services from March 21, 2020 to April 24, 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 IV			
Waln, Joseph	.60	155.00	93.00
Engineer / Scientist / Specialist III			
Fransen, Greg	.60	130.00	78.00
Engineer / Scientist / Specialist II			
Hlavaty, Heather	1.00	110.00	110.00

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.

Project	23271759.00	Elm Creek Floodplain Mapping	Invoice	5
---------	-------------	------------------------------	---------	---

Engineer / Scientist / Specialist I

Anderson, Edward

3.20

90.00

288.00

5.40

569.00

Subtotal Labor**569.00****Job Subtotal****\$569.00**

Job: 500 Hydraulic Modeling - Detailed Studies

Labor Charges**Hours****Rate****Amount**

Engineer / Scientist / Specialist IV

Wain, Joseph

1.20

155.00

186.00

Engineer / Scientist / Specialist II

Hlavaty, Heather

.40

110.00

44.00

Vecchi, Anthony

2.30

100.00

230.00

3.90

460.00

Subtotal Labor**460.00****Job Subtotal****\$460.00**

Job: 600 Hydraulic Analysis - Non Detailed

Labor Charges**Hours****Rate****Amount**

Engineer / Scientist / Specialist II

Vecchi, Anthony

.10

100.00

10.00

.10

10.00

Subtotal Labor**10.00****Job Subtotal****\$10.00**

Job: 900 Out-of-Scope

Labor Charges**Hours****Rate****Amount**

Engineer / Scientist / Specialist II

Hlavaty, Heather

1.60

110.00

176.00

1.60

176.00

Subtotal Labor**176.00****Job Subtotal****\$176.00****Total this Invoice****\$1,291.00**

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	1,291.00	35,585.00	36,876.00	35,585.00	1,291.00

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

May 1, 2020
 Invoice No: 23270F55.20 - 3

Total this Invoice	\$13,864.50
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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 meetings
 - attending TAC and WMC meetings
 - updating staff report
- Pre-Project Review
 - communicating with potential permit applicants regarding the following projects:
 - Stetler Barn CUP
 - Bellwether 4th Addition
 - Medina Roehl
 - Charlies Restaurant
 - JR Hill and M.G.
 - Markets PUD Outlots
 - Creekside Trail
 - Hackamore Road
- General administrative tasks (invoicing, project setup)
 - updating annual report
 - coordinating with administrator

Job 200 – Other Assistance

- MTDs
 - reviewing correspondence from MPCA
 - preparing meeting notes and sending to MPCA
 - preparing status update for ECWMC

Job 300 – Project Reviews

- reviewing the following projects for compliance with stormwater and erosion control rules:
 - 2017-039 Rush Creek Apartments
 - 2020-002 Project 100
 - 2020-004 Elm Road Area, Maple Grove
 - 2020-006 Zachary Villas of Dayton
 - 2020-007 Pineview Oakview Lane, Dayton
 - 2020-008 Lone Gardens, Dayton
 - 2020-009 Stetler Barn

Professional Services from March 21, 2020 to April 24, 2020

Job:	100	Technical Services
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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.

Project	23270F55.20	Elm Creek WMC 2020	Invoice	3
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Labor Charges

	Hours	Rate	Amount
Principal			
Herbert, James	25.00	200.00	5,000.00
Engineer / Scientist / Specialist IV			
Waln, Joseph	12.20	155.00	1,891.00
Support Personnel II			
Nypan, Nyssa	.80	95.00	76.00
	38.00		6,967.00
Subtotal Labor			6,967.00

Subconsultant Charges

Subconsultants			2,695.00
Subtotal Subconsultant			2,695.00

Job Subtotal **\$9,662.00**

Job: 200 Other Assistance

Task: 001 MTDs

Labor Charges

	Hours	Rate	Amount
Principal			
Herbert, James	4.20	200.00	840.00
	4.20		840.00
Subtotal Labor			840.00
		Task Subtotal	\$840.00
		Job Subtotal	\$840.00

Job: 300 Project Reviews

Task: 1739 2017-039 Rush Creek Apartments

Subconsultant Charges

Subconsultants			220.00
Subtotal Subconsultant			220.00
		Task Subtotal	\$220.00

Task: 2002 2020-002 Project 100

Subconsultant Charges

Subconsultants			220.00
Subtotal Subconsultant			220.00
		Task Subtotal	\$220.00

Task: 2004 2020-004 Elm Road Area

Project	23270F55.20	Elm Creek WMC 2020	Invoice	3
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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			440.00	
Subtotal Subconsultant				440.00

Task Subtotal \$765.50

Task: 2006 2020-006 Zachary Villas of Dayton

Subconsultant Charges

Subconsultants			82.50	
Subtotal Subconsultant				82.50

Task Subtotal \$82.50

Task: 2007 2020-007 Pineview Oakview Lane Dayton

Subconsultant Charges

Subconsultants			110.00	
Subtotal Subconsultant				110.00

Task Subtotal \$110.00

Task: 2008 2020-008 Ione Gardens

Subconsultant Charges

Subconsultants			1,072.50	
Subtotal Subconsultant				1,072.50

Task Subtotal \$1,072.50

Task: 2009 2020-009 Stetler Barn

Labor Charges

	Hours	Rate	Amount	
Principal				
Herbert, James	.40	200.00	80.00	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.80	155.00	124.00	
	1.20		204.00	
Subtotal Labor				204.00

Subconsultant Charges

Subconsultants			440.00	
Subtotal Subconsultant				440.00

Task Subtotal \$644.00

Task: 2011 2020-011 Bellwether 4th Addition

Project	23270F55.20	Elm Creek WMC 2020	Invoice	3
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Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.60	155.00	248.00	
	1.60		248.00	
Subtotal Labor				248.00
		Task Subtotal		\$248.00
		Job Subtotal		\$3,362.50
		Total this Invoice		\$13,864.50

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	13,864.50	31,622.50	45,487.00	31,622.50	13,864.50

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.

INVOICE

DATE

May 5, 2020

INVOICE NO

05052020

Surface Water Solutions

6533 Neddersen Circle

Brooklyn Park, MN 55445

952-456-4091

surfacewatersolutions@outlook.com

Elm Creek Watershed**Management Commission**

3235 Fernbrook Lane North

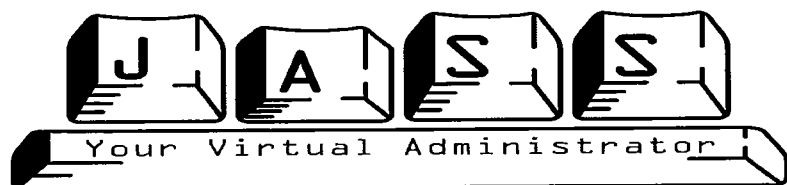
Plymouth, MN 55447

763-553-1144

JAMES KUJAWA**ECWMC PURCHASE FOR ADMINISTRATIVE OPERATIONS**

DATE	HOURS	DESCRIPTION	TOTAL
5/4/2020	N/A	1-year subscription-Dropbox Plus (account upgrade)	\$119.99

Subtotal	\$119.88
Total	\$119.88



3235 Fernbrook Lane
Plymouth MN 55447

Elm Creek Watershed Management Commission

3235 Fernbrook Lane

Plymouth, MN 55447

6-May-20

Total by
Project Area

Administrative	2.11	60.00	126.60	
Administrative	62.03	65.00	4,031.95	
Admin - Offsite		70.00	0.00	
Office Support	10.00	200.00	2,000.00	
Storage Unit	1.00	134.42	134.42	
Data Processing/File Mgmt		60.00	0.00	
File Management		60.00	0.00	
Archiving		60.00	0.00	
Admin - Reimbursable Expense	192.91	1.00	192.91	6,485.880
Admin - TAC support		60.00	0.00	
Admin - TAC support	21.08	65.00	1,370.20	
Admin - TAC support offsite		70.00	0.00	
TAC Support - Reimbursable Expense		1.00	0.00	1,370.200
Website		60.00	0.00	
Website	0.83	65.00	53.95	
Website - Zoom	10.40	1.00	10.40	
Website - Reimbursable Expense		1.00	0.00	
Web Domain, hosting		1.00	0.00	64.350
Annual Reporting/Work Plans		60.00	0.00	
Annual Reporting/Work Plans	21.90	65.00	1,423.50	
Annual Reporting - Reimbursable Expense	312.45	1.00	312.45	1,735.950
Project Reviews - Secre		60.00	0.00	
Project Reviews - Admin	5.60	65.00	364.00	
Project Reviews - Admin offsite		70.00	0.00	
Project Reviews - Admin - File Mgmt		55.00	0.00	
Project Reviews - Reimbursable Expense	311.98	1.00	311.98	675.980
Education - Secretarial		60.00	0.00	
Education - Admin	0.23	65.00	14.95	
Education - Admin Offsite - Blue Thumb Partner Event		70.00	0.00	
Education - Reimbursable Expense		1.00	0.00	14.950
CIPs - General - Secretarial		60.00	0.00	
CIPs - Administrative	8.51	65.00	553.15	
CIPs- Offsite Admin		70.00	0.00	
CIPs - reimbursables	37.33	1.00	37.33	590.480

Invoice Total

10,937.790

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

STAFF REPORT May 5, 2020

a. 2017-039 Rush Creek Apartments, Maple Grove. This project is located in the southwest quadrant of the intersection of Bass Lake Road (CSAH 10) and Troy Lane (CSAH 101). The project area is 8.2 acres in size and proposes *five apartment buildings (246 units) and a clubhouse*. This project is being reviewed for conformance to Rules D, E, and I. *Regional ponds within this area were approved during the Markets at Rush Creek development (2009-004) review. Compliance to the regional approvals will also be a component of this review. Staff recommends the Commission accept their findings dated April 29, 2020 and approve this project contingent upon: a) Maintenance access to the stormwater 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.*

b. 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 issued an order of abeyance (stay) on the appeal until April 1, 2019. An application for a replacement plan was received from Mayers on January 29, 2019. It addresses the wetland fill (4:1 replacement request) and drain tile (disable existing tile) impacts, but requests additional time to submit an application to address the ditch (WCA jurisdiction) and floodplain (Commission jurisdiction) impacts. A TEP was held February 28, 2019 to address the replacement plan and provide guidance to the LGU.

The City of Corcoran assumed WCA LGU responsibilities for this project on March 1, 2019. Corcoran and BWSR have extended the decision process to July 30, 2019. An updated replacement plan was received by the City on July 24, 2019. A TEP was held August 13 to discuss the plan. Corcoran extended the deadline for their decision to November 21, 2019. A new no-loss and replacement plan was received by the LGU on November 14, 2019. The TEP recommended and the LGU denied the application. Mayers appealed the decision. A TEP was held January 30, 2020 to discuss possible resolutions to the appeal. As of this update, no solution has been obtained.

c. 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.*

d. 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

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RULE I - BUFFERS

Italics indicates new information

indicates enclosure

quality and abstraction requirements on site prior to discharging offsite as part of the improvements. The Commission granted conditional approval at their October 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.*

e. 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 building addition. About 1.9 acres of the site will be disturbed and 1.06 acres of impervious surface will be added. This project was 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 that provides the irrigation 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 project and potential future projects. Updates will be provided to the Commission when the applicant resolves how they would like to proceed. *No new information has been received.*

f. 2019-030 Rolling Hills Acres, Corcoran. This is a 40.8-acre rural agriculture parcel located a mile north of Highway 55 on the east side of Rolling Hills Road. There is an existing home site in the far southwest corner of the parcel. The project proposes to subdivide the property into four large single-family lots ranging from 6.9 acres to 12.7 acres in size. The project will create approximately 0.5 acres of new impervious area. There are wetlands and floodplains on this site. The site plan triggers the Commission's review for conformance to Rules E, I, and F. Because there are no grading or floodplain impacts proposed, Staff approved this project contingent upon: (1) A planting plan of native vegetation being developed for the wetland buffer areas that are not in permanent vegetation at this time, and (2) A permanent vegetation cover plan being developed to control erosion and sedimentation on this site. *No new information has been received.*

g. 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 the final development stage plans. *No new information has not been received.*

h. 2020-002 Project 100, Maple Grove. *This project has been 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.

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Phase I site plans consists of mass grading of approximately 35 acres in the southeast portion of the site. This will 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 as of this report.*

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.

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 regulator requirements and approvals are compliant. This will be on-going as the site develops.

i. 2020-004 Elm Road Area Project, Maple Grove. This is approximately 53 acres consisting of nine large residential parcels proposed to be developed into 106 single-family residential lots. It is located along Elm Road near the border of Plymouth. Updated plans were received March 26, 2020. *At their April 2020 meeting the Commission approved this site plan contingent upon appropriate skimming of floatables for the low-flow pipe running into filter basins 1 and 1W and compliance with all State and City WCA requirements. No new information has been received as of this update.*

j. 2020-006 Zachary Villas of Dayton, Dayton. This project consists of three parcels totaling 5.74 acres located just south of Diamond Lake Road on the border with Champlin. Fourteen (14) single family residential lots are proposed. Staff reviewed it for compliance to the Commission's Rules D and E. *The Commission approved this project at their April 2020 meeting based on Staff's findings with no conditions dated March 26, 2020. This item will be removed from the report..*

k. 2020-007 Pineview and Oakview Lanes North Improvements, Dayton. The City of Dayton proposes to reconstruct and make improvements to Pineview and Oakview Lanes North and part of CSAH 121 due to an increase in traffic volume. Proposed improvements include a roundabout at the intersection of Pineview Lane and CSAH 121, installation of a multiuse trail along the west side of Pineview Lane, and CSAH 121, installation of a multiuse trail along the west side of Pineview Lane, and general street construction, utility,

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and drainage improvements on Pineview and Oakview Lanes. The total new impervious areas on this project will be 1.92 acres. The Commission's standards require approval of linear projects that create one or more acre of new impervious surface. This project was reviewed for compliance to Rules F, D, and E. *At their April 2020 meeting the Commission approved this project contingent upon (1) the wetland alterations meeting MN WCA and LGU requirements; (2) the inlet and outlet pipes to the filtration pond being separated an adequate distance; and (3) the City being aware of the increase in runoff rates to the wetland sub-watershed (staff findings dated March 31, 2020). Items 2 and 3 have been achieved per the Commission's directives. Item 1 has been noticed and is pending final LGU approval. This project will be removed from the report.*

l. 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 packet. Staff extended the decision deadline 60-days to July 8, 2020. No new information has been provided as of this update.*

m. 2020-009 Stetler Barn, Medina. This site disturbs approximately 3.5 acres. Anything over 1.0 acres of site disturbance triggers a Commission project review. It will need to meet 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 will also be an important part of the review. *A complete plan was received on April 22, 2020. Findings and recommendations dated May 4, 2020 are provided in this month's packet. Staff recommends the Commission approve 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. This agreement must be recorded on the land title with a copy of the recorded agreement provided to the Commission.*

n. 2020-010 Birchwood, Rogers. This project is located on the east side of CR 13 (Brockton Lane) one-quarter mile south of the intersection of CR 144 (141st Ave. N.) and CR 13. It consists of two parcels that total 21.15 acres. It is currently all cropland with a 1.0-acre farmstead in the southwest corner and a 1.17-acre farmed wetland in the northwest corner. The applicant is proposing to develop the site into 61 single family residential lots and one amenity lot creating 7.73 acres of new impervious areas. The Commission's review is for conformance to Rules D, E, and I. *Current plans comply with Rules E and I. Staff's current review and findings dated May 6, 2020, are included in this month's packet with an approval recommendation conditioned upon receipt of the NPDES SWPP Plan on this site.*

o. 2020-011 Bellwether 4th/5th Additions, Corcoran. This project is located west of County Road 101 (Brockton Lane N) and south of Stieg Road. The project will construct 20 residential units as part of a larger residential and commercial development on 226 acres, including approximately 400 residential lots and 13 acres of commercial area. *Plans for the larger development were approved in 2018 (Project #2018-032). This is an administrative review for the Commission to check that the additions are consistent with the plans approved in 2018 and remain in conformance with Rules D, E, F and I. Current plans do not comply with Rule F. Staff's review and findings dated May 7, 2020, are included in this month's packet with contingent administrative approval pending receipt of an updated stormwater management plan,*

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updated SWPP plan and resolution of low flow elevations that do not meet minimum freeboard requirements.

p. 2020-012 Wayzata High School Parking Lot, Plymouth. *This project is located on the east side of the Wayzata High School. This site plan triggers the Commission's review requirements for Rules D and E. It will disturb 3.5 acres and create an additional 0.71 acres of impervious area. A complete application was not received in time to provide a review and recommendation for the Commission at their May meeting. Expect project findings to be available at the June meeting.*

FINAL RECORDINGS OR OTHER DOCUMENTATION ARE DUE ON THE FOLLOWING PROJECTS: *(Staff 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.

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.*

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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 was 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. 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.

ap. 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.

aq. 2018-044 OSI Phase II, Medina. Staff findings dated October 9, 2018 were approved by the Commission at their October meeting contingent upon receipt of an approved stormwater system O&M plan being recorded on the property title. On October 2, 2019 Dusty Finke reported that the City is still awaiting final plat for this project.

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 Commis-

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

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

BUFFER REVIEW

2020 buffer monitoring review has been completed. Residents who have action items they need to address have been notified by US Mail, residents who will be receiving a spot check will be notified by US Mail closer to when those field visits will be allowed/taking place - probably June or so. There is a waiting list of project development (Rush Creek and elsewhere in the watershed) and resident concerns site visits that are waiting for Environment and Energy leadership to decide can be safely conducted.

ELM CREEK FLOODPLAIN MAPPING PROJECT

Heather Hlavaty at Barr Engineering provided the following update for May

Work conducted over the last month:

- Delineation of stream centerlines for major tributaries in the watershed
- Identification of survey needs and cross-section locations
- Received effective HEC-2 hydraulic models from the MnDNR along with past CLOMR/LOMRs in the watershed (4/27).
- Received final hydrology comments from the MnDNR (4/24)
- Meeting with the MnDNR to discuss hydrology comments (Thursday 4/30)

Work that is anticipated to occur over the month:

1. Address hydrology comments from the MnDNR and resubmit hydrology model
2. Review effective HEC-2 models and CLOMR/LOMR data
3. Begin update/development of HEC-RAS hydraulic models
4. Identify additional survey needs

RULE D - STORMWATER MANAGEMENT
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Data/input we are waiting on from others

- Nothing at this time

Budget spent through 5/1/2020: \$ 38,188 (58% remaining)

Schedulewise, we are two months behind the anticipated schedule outlined in the scope. Factors that contributed to tasks taking longer than expected are listed below.

- COVID-19 stay-at-home executive order has had impact across the board with coordination with the DNR, FEMA and project team.
- The initial assumption was that watershed delineations would be based on watersheds in the Three Rivers Park District SWAT model. That level of detail was insufficient for FEMA hydrology, which required Barr to do a more detailed delineation of subwatersheds.
- MnDNR had a backlog of projects for review in February. Barr used this time to do a more robust internal review of the hydrologic modeling before submitting the files to the DNR in early March.
- The MnDNR review of the hydrologic model took a month longer than expected.
- Barr requested FEMA's effective hydraulic models from the MnDNR at the beginning of March but did not receive them until the end of April.

We will look for opportunities to accelerate future tasks where possible to make up time. Still, additional delays are a possibility. For example, the hydraulic modeling may require survey or other data gathering by others, and agency review times often take longer than planned. We will revisit the schedule with the DNR and report any schedule revisions to the Commission.

RULE D - STORMWATER MANAGEMENT
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judie@jass.biz

To: Elm Creek Commissioners
Technical Advisory Committee

From: Judie Anderson

Date: May 7, 2020

Subject: Preliminary 2021 Operating Budget

Earlier this month Treasurer Ken Guenthner and I met to formulate an operating budget for the year 2021. Because the 2019 Audit has not been completed, the proposed budget includes preliminary numbers only.

It may be that a draft audit will be available prior to the regular meeting and a more comprehensive draft budget can be presented at that time.

One thing to note, as we are all aware, there is a considerable deficit in the project review section of the budget. The Technical Advisory Committee will be reviewing the Commission's position in this area at their May 21 meeting and will bring a recommendation to the Commission at the June meeting.

A final 2021 budget must be approved at the Commission's June 10, 2020 meeting.

Elm Creek Watershed Management Commission - Proposed 2021 Operating Budget

	A	B	C	D	AT	AV	AW	AX	AY	AZ	BA	BB
3					2018 Budget	2018 Audit	2019 Budget	2019 pre-Audit	2020 Budget	Proposed 2021 Budget	Notes	adjustments to general fund
4												
5	GENERAL OPERATING BUDGET											
6	Operating Expenses											
7		Administrative			90,000	84,728	90,000	95,972	90,000	95,000		
8		Watershed-wide TMDL Admin			2,500		1,500	0	300	0	will not be spent in 2020	300
9		Grant Writing			4,000		4,000	0	1,000	650		
10		Website			6,000	1,973	5,000	1,073	3,000	2,000		
11		Legal Services			2,000	271	2,000	1,850	2,000	2,000		
12		Audit			5,000	4,500	5,000	4,500	5,000	5,000		
13		Insurance			3,900	2,993	3,900	2,661	3,900	3,200		
14		Technical support - HCEE							15,000	0		
15		Contingency			1,000		1,000		1,000	1,000		
16		Subtotal			114,400	94,465	112,400	106,056	121,200	108,850		
17		Project Reviews										
18		Technical - Barr Engineering/SWS			95,000	92,477	97,400	70,473	185,000	185,000	thru 2019, worked performed by Henn County. Hourly rate increased from \$65-75/hour to \$95-200/hour, the majority at \$155 or \$200/hour	
19		Technical - Barr - Floodplain modeling 2018=A/R			46,386		46,386		39,360		at time of 2019 audit acceptance, need motion to carry over	
20		Technical Support			12,000	37,553	15,000	20,389	0		thru 2019, project review support of Henn County performed by Barr Engrg	
21		Admin Support			14,000	13,543	15,000	8,542	15,000	12,000	includes project intake, liaison w/cities. developers, citizens. Based on history, can be adjusted downward in 2020.	3,000
22		Subtotal			167,386	143,573	173,786	99,404	239,360	197,000		
23		Wetland Conservation Act										
24		WCA Expense			17,750	15,886	18,200	3,710	3,000	0	included in line 17 above	3,000
25		WCA Expense - Legal			500	683	500	31	500	0	will not be spent in 2020	500
26		WCA Expense - Admin			1,500	3,388	2,000	424	1,000	0	will not be spent in 2020	800
27		Subtotal			19,750	19,957	20,700	4,165	4,500	0		

Elm Creek Watershed Management Commission - Proposed 2021 Operating Budget

	A	B	C	D	AT	AV	AW	AX	AY	AZ	BA	BB
3					2018 Budget	2018 Audit	2019 Budget	2019 pre-Audit	2020 Budget	Proposed 2021 Budget	Notes	adjustments to general fund
28				Water Monitoring								
29				Stream Monitoring								
30				Stream Monitoring - USGS	24,900	21,660	41,000	20,840	24,000	24,000	w/b \$20,940 + extra samples in 2020	1,000
31				Stream Monitoring - TRPD			6,225	6,875	7,200	7,200	per cooperative agreement	
32				Extensive Stream Monitoring	7,600	7,600	650				per cooperative agreement	
33				DO Longitudinal Survey	1,000	1,000			1,000	1,000	per cooperative agreement	
34				Gauging Station - Elec Bill	250	208	250	208	250	250		
35				Rain Gauge Network	100		100	0	100	0	will not be spent in 2020	100
36				Lake Monitoring								
37				Lake Monitoring - CAMP	720	550	760	0	760	760	Teal Lake in 2020	
38				Lake Monitoring - TRPD							per cooperative agreement	
39				Sentinel Lakes	3,300	3,300	8,100	8,100	8,100	8,100	per cooperative agreement	
40				Additional lake	825		1,500	0	2,500	2,500	per cooperative agreement	
41				Aquatic Vegetation Surveys	1,100	1,100	325	325	1,100	1,100	per cooperative agreement	
42	√			Source Assessment	0							
43	√			Watershed-wide TMDL - Followup - TRPD	5,000		2,500		1,000		now part of routine monitoring, will not be spent in 2020	1,000
44				Wetland Monitoring - WHEP	4,000	4,000	4,000	4,000	4,000	4,000		
46				Subtotal	48,795	39,418	65,410	42,198	50,010	48,910		
47				Education								
48				Education - City/Citizen Programs	4,000	2,269	4,000	2,493	3,000	2,500		
50				WMWA General Admin	4,000	2,000	5,000	3,000	5,000	5,000		
51				WMWA Implementa Activities incl Watershed	6,500	3,250	6,500	4,000	6,500	6,500		
53				R Garden Workshop/Intensive BMPs	2,000	2,924	2,000	2,000	3,000	3,000		
54				Education Grants	2,000		1,000	0	1,000	1,000		
55				Macroinvertebrate Monitoring-River Watch	3,000	3,000	3,000	3,000	3,000	3,000		
56				Ag Specialist				0				
57				Subtotal	21,500	13,443	21,500	18,193	21,500	21,000		
62				Management Plan								
63				Plan Amendments	2,000	1,388	2,000	1,396	2,000	2,000		
64				Local Plan Review	8,000			0				
65				Contribution to 4th Generation Plan						10,000	begin set-aside for 2024, this no. needs to increase in future years, est. cost = \$45-50,000. New restricted fund.	
66				Subtotal	10,000	1,388	2,000	1,396	2,000	12,000		

Elm Creek Watershed Management Commission - Proposed 2021 Operating Budget

	A	B	C	D	AT	AV	AW	AX	AY	AZ	BA	BB
3					2018 Budget	2018 Audit	2019 Budget	2019 pre-Audit	2020 Budget	Proposed 2021 Budget	Notes	adjustments to general fund
67				CIPs, Grants, Special Projects, Studies								
68				Capital Outlay - CIPs - Ad Valorem	490,000	323,545	462,500	352,687	448,935	185,588	\$423,323 and \$175,000 project costs adjusted for admin exp, levy shortfall in 2020 and 2021	
69				Floodplain Mapping - Barr				533		0		
70				Grants		27,631		199,092	125,000	125,000		
71				Projects ineligible for ad valorem	50,000	0		0	0			
75				Studies, Subwatershed Assessments	35,000	3,534	35,000	4,860	0	35,000	need motion to carry over 2019 unused portion, line 119	
76				Cash Sureties				5,581		0		
78				Subtotal	575,000	354,710	497,500	562,722	573,935	345,588		
81		Contingency			0	0	0	0	0	0		
82				Subtotal	0	0	0	0	0	0		
83				Total Operating Expense	956,831	666,954	893,296	834,134	1,012,505	733,348		9,700
84												
85		Revenue										
86				CIPs - Ad Valorem	490,000	436,393	462,500	454,161	448,935	185,588	restricted fund line 115	
87				Grant Revenue		99,411		5,028	100,000	100,000	assume 25% contribution line 69. Included in line 105, or line 106 if receipt is imminent.	
88				Floodplain Modeling	46,386		46,386		39,360			
89				Project Review Fees	80,000	73,305	80,000	45,874	80,000	100,000	review and adjust fee schedule to capture expense	
90				Water Monitoring - TRPD Co-op Agmt	6,500	5,000	5,000	5,000	5,500	5,000	per cooperative agreement	
91				BMP Implementation								
92				WCA Fees	10,000	3,450	5,000	900	0	0	no longer serving as LGU	
93				Forfeited/Reimbursed Sureties, Reimbursement from LGUs	0	2,733	4,000	655				
94				Membership Dues	225,000	225,000	230,400	230,400	237,300	242,000	2% increase. 1% increase=239,700; 3%=244,400	
95				Watershed-wide TMDL								
96				Interest Income	250	18,382	2,500	26,203	8,000	15,000		
97				Dividend Income	750	223	500	204	250	250	LMCIT insurance	
98				Miscellaneous Income								
99												
100				Total Operating Revenue (lines 84-97)	858,886	863,897	836,286	768,425	919,345	647,838		
101				Surplus (Deficit) (lines 81, 98)	97,945	196,943	57,010	65,709	93,160	85,510		

Elm Creek Watershed Management Commission - Proposed 2021 Operating Budget

	A	B	C	D	AT	AV	AW	AX	AY	AZ	BA	BB
3					2018 Budget	2018 Audit	2019 Budget	2019 pre-Audit	2020 Budget	Proposed 2021 Budget	Notes	adjustments to general fund
102												
103				Assets								
104				Cash and investments		1,204,595	Cash on hand					
105				Restricted cash		98,444	Lines 109 and 110 below, includes Comm invoices outstanding plus Flood Mapping expenses unpaid					
106				Accounts Receivable		15,167						
107				Total Assets		1,318,206	A					
108												
109				Liabilities and Fund Balances								
110				Accounts payable		107,830	includes Commission expenses paid and WCA escrow returned in Jan 2019					
111				WCA Escrows		30,000						
112				Unearned Revenue		68,444	includes unearned revenue from grants					
113				Total Liabilities		206,274	B					
114												
115				Fund Balances								
116				Restricted for CIPs		732,763						
117				Closed Project Account		1,221	funds remaining after project closed, to be designated for future CIPs only					
118						733,984	C					
119												
120				Assigned for projects, studies		175,297						
121				Assigned for other		50,000						
122				Total Assigned Funds		225,297	D					
123												
124				Unrestricted/unassigned fund balances		152,651	Funds not designated for any specific purpose					
125						152,651	E	86,942	6,218	91,728		
126												
127				Total Assigned and Unassigned Funds		377,948						
128												
129				Total Fund Balance/Net position		1,111,932	F					
130												
131				Total Liabilities and fund balances		1,318,206	G					
132												
133												

Elm Creek Watershed Management Commission
Proposed 2021 Member Assessments

2020	2019 Taxable Market Value	2019 Budget Share		Increase over Prev Year	
		%age	Dollars	%age	Dollars
Champlin	540,590,344	4.12%	9,768.39	6.97%	284
Corcoran	865,123,487	6.59%	15,632.66	2.56%	455
Dayton	749,481,401	5.71%	13,543.02	8.87%	394
Maple Grove	6,614,821,616	50.37%	119,528.89	1.93%	3,476
Medina	1,050,664,076	8.00%	18,985.35	-1.42%	552
Plymouth	1,418,363,351	10.80%	25,629.62	11.11%	745
Rogers	1,893,322,435	14.42%	34,212.07	0.65%	995
Totals	13,132,366,710	100.00%	237,300.00	2.99%	6,900
2021	2020 Taxable Market Value	2019 Budget Share		Increase over Prev Year	
		%age	Dollars	%age	Dollars
Champlin	586,080,150	4.13%	9,801.07	3.34%	33
Corcoran	945,017,350	6.66%	15,803.61	4.12%	171
Dayton	859,590,989	6.06%	14,375.02	9.32%	832
Maple Grove	7,002,119,108	49.35%	117,097.09	0.90%	-2,432
Medina	1,117,455,738	7.87%	18,687.32	1.38%	-298
Plymouth	1,634,614,359	11.52%	27,335.81	9.85%	1,706
Rogers	2,045,081,387	14.41%	34,200.09	2.96%	-12
Totals	14,189,959,081	100.00%	237,300.00	0.00%	0
2021	2020 Taxable Market Value	2019 Budget Share		Increase over Prev Year	
		%age	Dollars	%age	Dollars
Champlin	586,080,150	4.13%	9,995.19	2.32%	194
Corcoran	945,017,350	6.66%	16,116.62	3.10%	313
Dayton	859,590,989	6.06%	14,659.73	8.25%	285
Maple Grove	7,002,119,108	49.35%	119,416.33	-0.09%	2,319
Medina	1,117,455,738	7.87%	19,057.44	0.38%	370
Plymouth	1,634,614,359	11.52%	27,877.22	8.77%	541
Rogers	2,045,081,387	14.41%	34,877.46	1.94%	677
Totals	14,189,959,081	100.00%	242,000.00	1.98%	4,700
2021	2020 Taxable Market Value	2019 Budget Share		Increase over Prev Year	
		%age	Dollars	%age	Dollars
Champlin	586,080,150	4.13%	10,094.32	2.99%	293
Corcoran	945,017,350	6.66%	16,276.46	2.99%	473
Dayton	859,590,989	6.06%	14,805.12	2.99%	430
Maple Grove	7,002,119,108	49.35%	120,600.62	2.99%	3,504
Medina	1,117,455,738	7.87%	19,246.44	2.99%	559
Plymouth	1,634,614,359	11.52%	28,153.69	2.99%	818
Rogers	2,045,081,387	14.41%	35,223.35	2.99%	1,023
Totals	14,189,959,081	100.00%	244,400.00	2.99%	7,100

elm creek

Watershed Management Commission

ADMINISTRATIVE OFFICE
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Email: jHerbert@barr.com

Rush Creek Apartments **Maple Grove, Project #2017-039**

Project Overview: This project is in the SW quadrant of the intersection of Bass Lake Road (CSAH 10) and Troy Lane (CSAH 101). The project area is 8.2 acres in size and proposes five apartment buildings (246 units) and a clubhouse. The ECWMC will review this project for conformance to Rule D, stormwater management, Rule E, Erosion and Sediment Controls and Rule I, Buffer strips. Regional ponds within this area were approved during the Markets at Rush Creek development (2009-004) review. Compliance to the regional approvals will also be a component of this review.

Applicant: Kaas Wilson Architects, 1301 American Boulevard East, Suite 100, Bloomington, MN 55425. Phone: 612-284-8220. Email: bend@kasswilson.com

Agent: Alliant Engineering-David Nash, 233 Park Avenue South, Suite 300, Minneapolis, MN 55415. Phone: 612-767-9327. Email: dnash@alliant-inc.com

Exhibits:

- 1) ECWMC Request for Plan Review and Approval, received September 5, 2017.
Applicant request and ECWMC approval for extensions to December 31, 2020.
- 2) Stormwater Management Hydrologic and Hydraulic Study by Alliant Engineering dated August 25, 2017 with revision dated April 16, 2020.
- 3) Site Plan Information dated August 28, 2017, last revision date April 30, 2020.
 - a. Southwest Crossroads Second Addition Plat, Sheets 1 and 2 of 2
 - b. Sheet C-1.0, Existing Conditions,
 - c. Sheet C-2.0, Overall PUD Plan
 - d. Sheets C-3.0 & C-3.1, Site Plan
 - e. Sheets C-4.0 & C-4.1, Grading Drainage & Erosion Control Plans
 - f. Sheet C-4.2, Filtration Basin
 - g. Sheets C-4.3 & C-4.4, SWPP Plans
 - h. Sheets C-5.0 to C-5.2, Utility Plans
 - i. Sheets C-6.0 to C-6.2, Site Details
 - j. Sheets L-1.0 to L-2.0, Landscape Plan, Notes, Details and Tree Preservation Plan.
 - k. Sheet P-1.0, Photometric Plan.
- 4) ECWMC Project file 2009-004, Markets at Rush Creek.
- 5) ECWMC staff email dated August 10, 2017 to Jupe Hale, Maple Grove Engineer, regarding temporary pipe and stormwater treatment pond at the SW corner of CSAH 101 & 10 intersection.

- 6) Pond 5 Markets at Rush Creek Grading Plans, 4 of 4 sheets with last revision date of October 27, 2017.
- 7) MN Statute 15.99 extension requests and approvals dated January 3, 2018, February 6, 2019 and December 31, 2019.

Findings:

- 1) A complete application was received September 5, 2017. The initial 60-day decision period per MN Statue 15.99 expires November 4, 2017. This project was extended by the applicant to December 30, 2020. Staff approved the extensions contingent upon the project remaining active during that time with the City of Maple Grove Planning Department and final compliance to the City and Watersheds requirements on regional Pond 5. The applicant and city have confirmed these contingencies.
- 2) Prior projects on this site include:
 - a. 2009/2010; Markets at Rush Creek development and CSAH 101 & 10 intersection were approved by the ECWMC. This project was approved to meet the Commission's 2nd Generation Plan. Grading was completed to accommodate CSAH 10 and 101 intersection. Site grading and the remaining stormwater utility work outside of the ROW was not done in the vicinity of this project. Because of this, Pond 5 and the connection to the outlet to Wetland C were not provided on this site. The new stormwater system and grading work inadvertently expanding wetland C well beyond its normal water level. To correct this and complete the regional stormwater system, construction of Pond 5 and an outlet pipe from Wetland C to County Ditch 16 was completed in 2017-2018. Staff approved these projects with the understanding this site plan (2017-039) will comply to the Commission's 3rd Generation SWMP.

Rule D, Stormwater Management:

Rate Control from this site, and regional ponds 5 and 6 meet the Commission standards.

- 1) Planned drainage areas from this site based on original approval were split two ways.
 - a. Pond 5; 3.3 acres drained north into stormwater pond 5. Pond 5 was designed to discharge 11.6, 22.8, 38.6 cfs for the 2, 10- and 100-year events.
 - b. Pond 6; 4.7 acres drained south into stormwater pond 6. Pond 6 was designed to discharge 0.3, 0.7, 4.4 cfs for the 2, 10- and 100-year events.
- 2) Planned drainage areas from this site based on new proposal are split two ways.
 - a. Pond 5: 7.01 acre are to drain north into a new bio-retention pond before draining into pond 5. Pond 5 is proposed to discharge 7.7, 14.6, 34.3 cfs for the 2, 10- and 100-year events. Updated regional pond 5 discharges meet rate controls approved by the Commission.
 - b. Pond 6; 0.95 acres are to drain south into pond 6. Pond 6 is proposed to discharge 0.28, 0.37, 3.00 cfs for the 2, 10- and 100-year events. Regional pond 6, updated discharges meet the original rate control flows approved by the Commission.

Nutrient Loads from the site meet the Commission standards.

- 1) Total Phosphorus (TP) loads from pond 5 as approved for project 2009-004 were 26.8 lbs/year. The new biofiltration basin and pond 5 will decrease these loads from pond 5 by 0.4 lbs/year to 26.4 lbs/year.
- 2) Nutrient TP loads from pond 6 as approved for project 2009-004 were 9.2 lbs/year. Based on staffs PondNet model, post development loads will be 7.3 lbs/year, a decrease of 1.9 lbs/year. This will meet the original regional condition approved by the Commission.
- 3) Pre and post development Total Suspended Solids (TSS) load for this site will be 161 lbs/year before development and 94 lbs/year after development, complying to the Commission's nutrient load standards.

Abstraction Controls meet the Commission standards.

- 1) New impervious areas will be 5.02 acres from the apartment project.
- 2) 5.02 acres requires a volume of 0.46 ac. ft. (20,045 cubic feet) for abstraction.
- 3) Filtration through a bio-filtration pond is proposed in lieu of true abstraction.
- 4) Actual filtration will be 42,171 cubic feet over 48 hours.
- 5) Operation and maintenance access to the ponds must be shown on the plans
- 6) The stormwater management system must have an operation and maintenance plan approved by the Commission and City. Said plan must be recorded on the title of the property. A copy of the recorded plan must be provided to the Commission.

Wetland buffers will meet the Commission standards.

- 1) Minimum buffer width will be 10 feet with an average width of 25 feet. Total buffer area required = 44,576 sq. ft. Buffer area provided = 44,636 sq. ft.
- 2) Locations of buffer monuments are provided on the site plans.

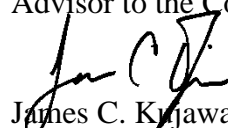
Erosion and sediment control plans meet the Commission's standards.

Recommendation: Approval contingent upon:

The following items are necessary prior to final approval.

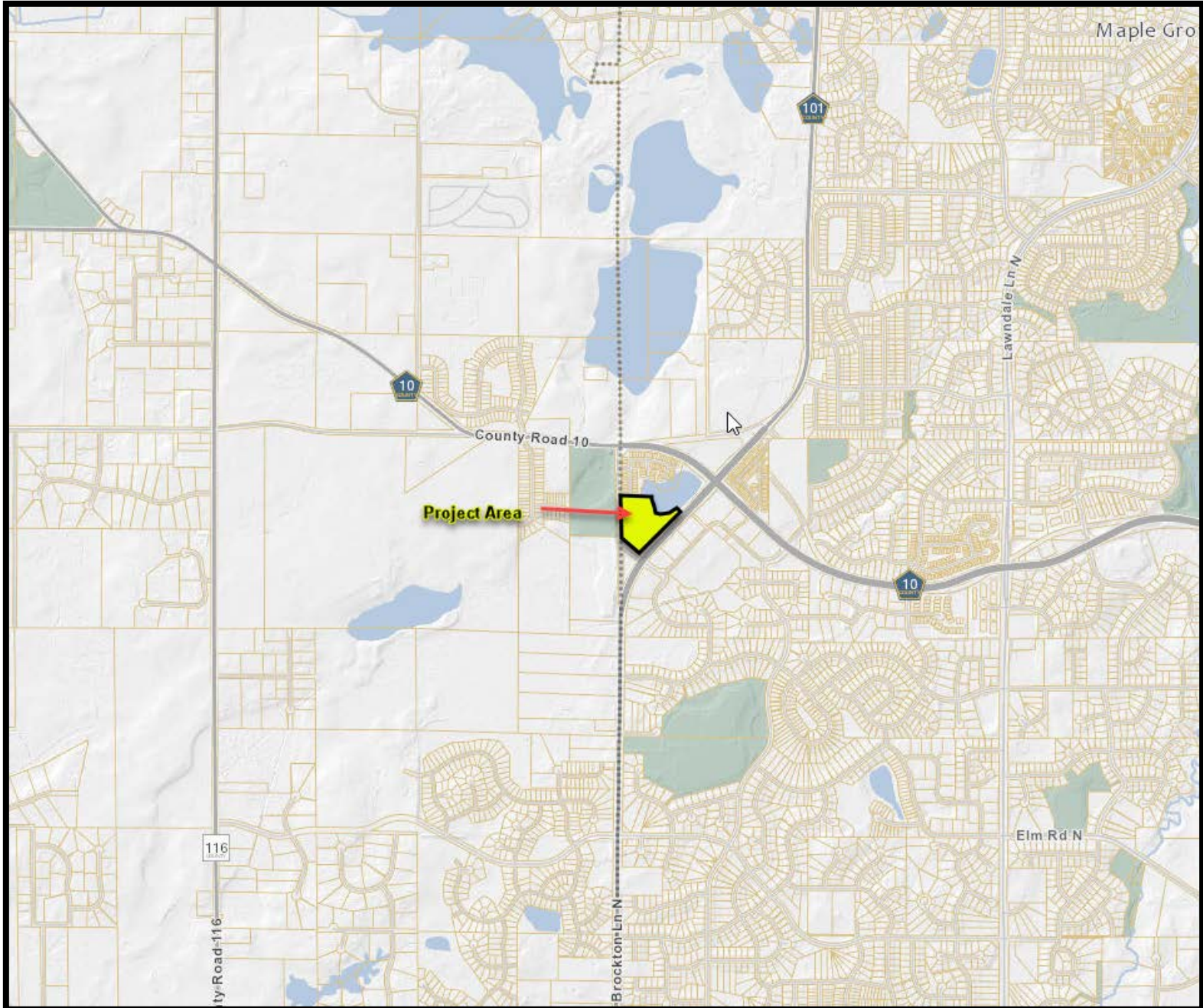
- Maintenance access to the stormwater ponds must be provided.
- The O&M plan for the stormwater management systems (biofiltration basin) must be provided for the Commission's approval. Said plans must be recorded on the property title. A copy of the recorded document must be provided to the Commission.

Barr Engineering
Advisor to the Commission


James C. Kijawa
Surface Water Solutions LLC

April 29, 2020

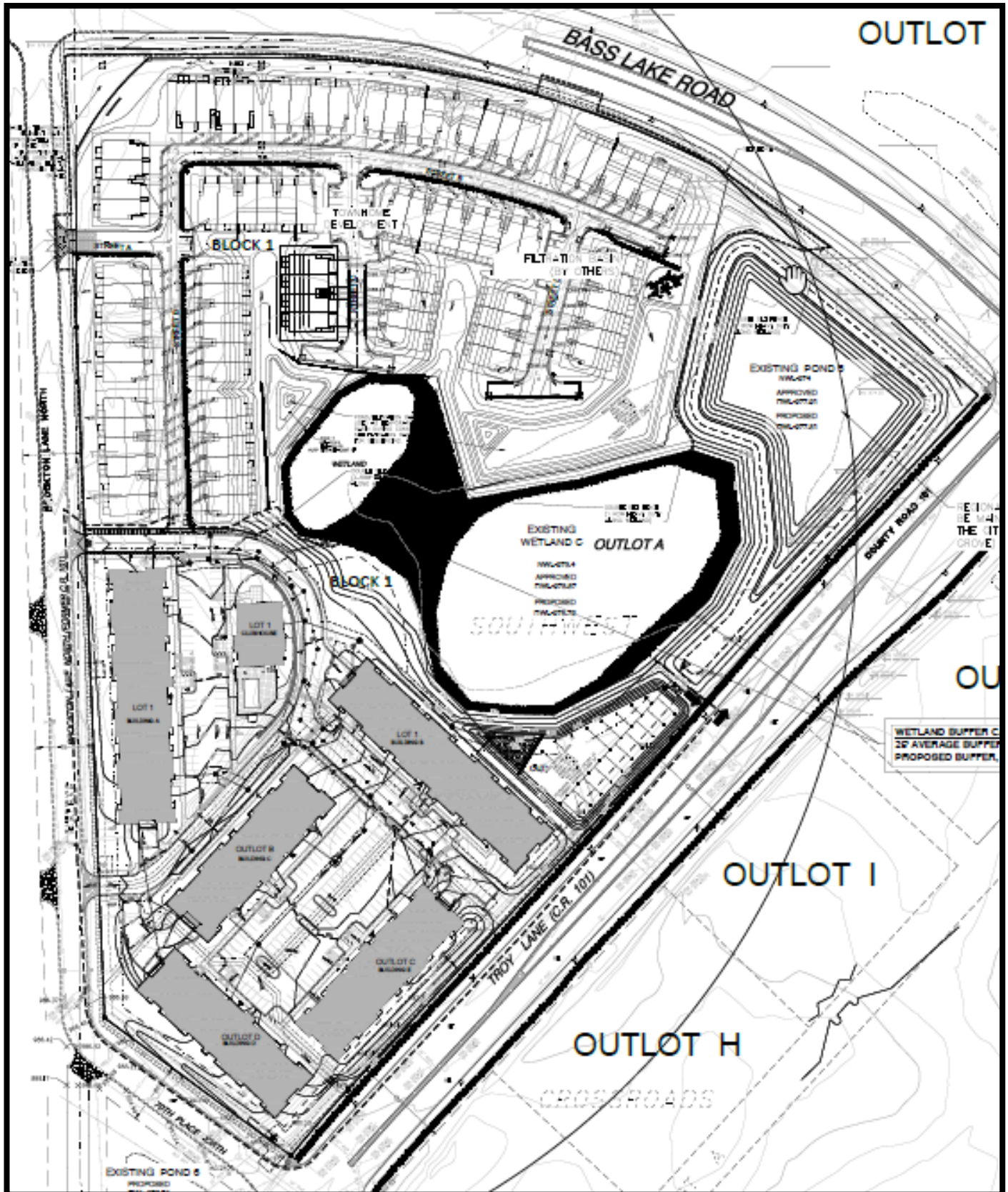
Location Map



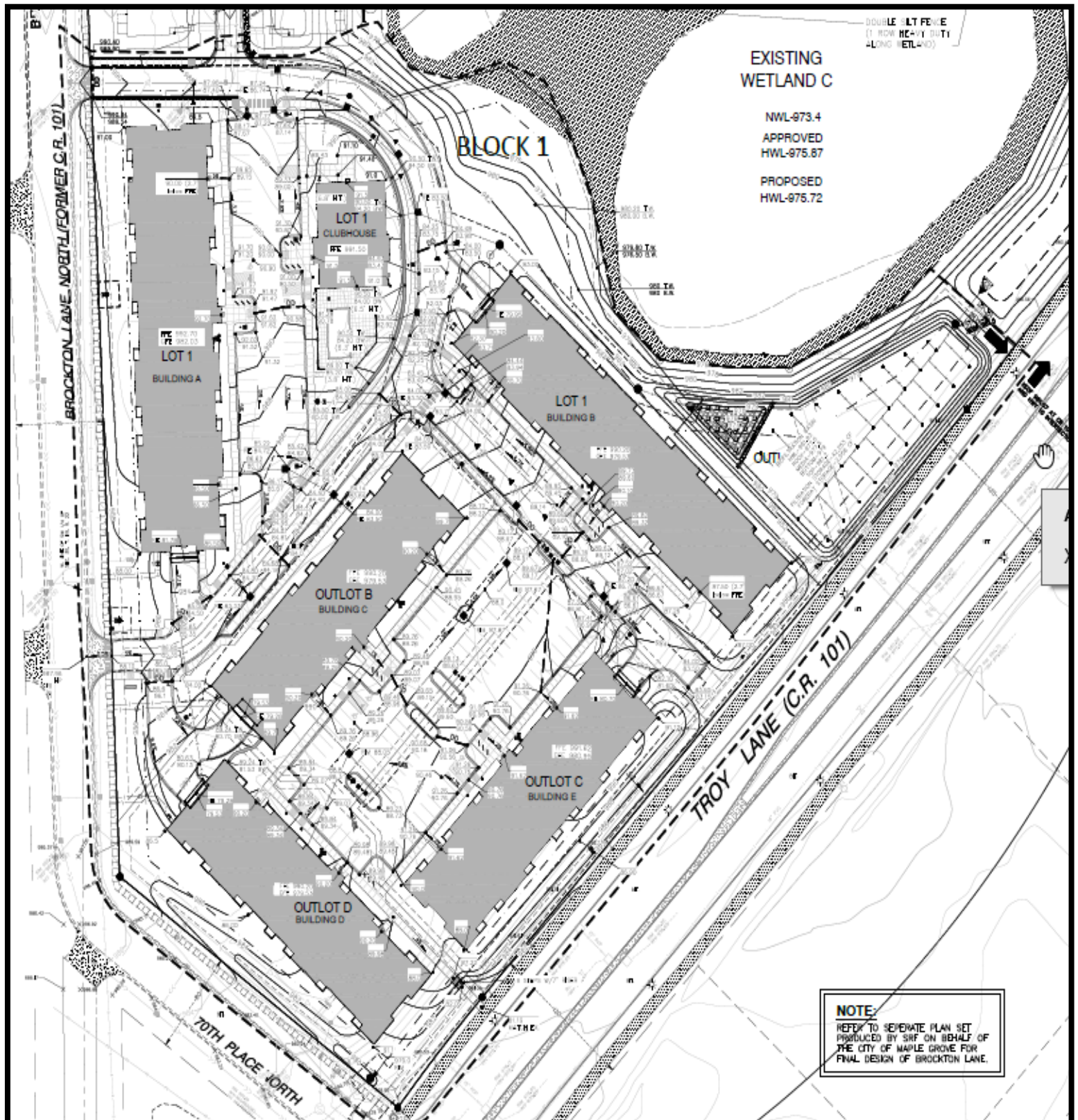
Regional Site Layout



Overall Area Plan



Apartment Layout and Grading



elm creek

Watershed Management Commission

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Stetler Barn **Medina, Project #2020-009**

Project Overview: This is a new home and barn site at 1832 Medina Road. The parcel is 35 acres with approximately 9.5 acres of upland. The project will disturb approximately 3.5 acres while constructing a new home, barn, and indoor arena. It will create 0.6 acres of new impervious area. This project triggers the Commission's review requirements on Rule D (Stormwater Management), Rule E (Erosion and Sediment Control) and Rule I (Buffer Strips). Because of the limited available space for pasture, paddocks, and land application of manure, understanding how these components will be managed will also be an important part of our review.

Applicant: Nor-Son Custom Builders, Attention Brody Schmid, 700 East Lake Street, Wayzata, MN 55391. Phone: 612-810-6013. Email: bordy.shcmid@nor-son.com

Agent: Jim and Cris Stetler (Owners), 3740 Yellowstone Lane, Plymouth, MN 55446. Phone: 612-270-4305. Email: jcstetler@gmail.com

Exhibits:

- 1) ECWMC Request for Plan Review and Approval dated March 26, 2020. Fees with application of \$450.00.
- 2) Nor-Son -Stetler City of Medina, Conditional Use Permit Application and narrative.
- 3) LGU MN WCA Notice of Decision, wetland boundary/Type, 1832 Medina Road Wetland Delineation dated March 30, 2020.
- 4) Site and Stormwater Pollution Prevention Plans by Otto and Associates signed and dated on April 30, 2020.
 - a. Sheet 1 of 5, Site and Grading Plan dated October 22, 2019, latest revision date of April 29, 2020
 - b. Sheets 2 & 3 of 5 SWPP Plans, dated November 14, 2019 latest revision date of April 29, 2020
 - c. Sheet 4 of 5, Wetland Buffer Plan dated November 14, 2019 latest revision date of April 29, 2020
 - d. Sheet 5 of 5, Restoration Plan dated November 14, 2019 latest revision date of April 29, 2020
- 5) Stetler Property Stormwater Report by Otto and Associates dated April 16, 2020, revised April 28, 2020..
- 6) Medina Pasture Manure Management Plan received via email from Cris Stetler on April 28, 2020.

Findings:

- 1) A complete application was received on April 22, 2020. The initial 60-day review period, per MN Statute 15.99, expires June 21, 2020.
- 2) Per ECWMC Appendix O, Rules and Standards, project reviews by the Commission are required for all projects disturbing more than one acre of land for rate controls (Rule D), volume management (Rule D), erosion and sediment control (Rule E). This project will disturb 3.5 acres and create an additional 0.6 acres of new impervious areas.
- 3) Rule D, Stormwater Management.
 - a) Existing drainage is to the north through a complex of wetlands and ditches for about 2 miles before it enters Elm Creek near the old Hamel sewage treatment lagoon.
 - b) Proposed drainage patterns will remain the same.
 - c) Stormwater management will be provided by additional vegetated buffers and two small depressional basins (rain gardens) with iron enhanced sand filter (IESF) outlets.
 - d) Oversized wetland buffer areas are proposed to account for the Commission's abstraction rules, achieving a credit of 0.75" of abstraction over the excess buffer.
 - e) The depressional basins and IESF (rain gardens) are provided for rate and nutrient controls.
 - f) A manure and pasture management plan has been submitted for compliance to the Medina's city code 826.98 (o) v, vi, ix.
 - g) A long-term pond/basin operation and maintenance plan and agreement with the City of Medina will be necessary. This agreement must be recorded on the land title with a copy of the recorded agreement provided to the Commission.

Rate controls will meet the Commissions requirements.

Rate controls before and after construction are as follows:

	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rates	9.4	21.2	50.6
Post-Development Rates	6.9	20.4	50.6

Abstraction controls meet the Commission's requirements.

- a) Abstraction volume required for 0.6 acres of new impervious areas will be 2,407 cubic feet. The excess buffer credits create an equivalent abstraction credit of 2,408 cubic feet.

Phosphorus and Total Suspended Solid controls meet the Commission's requirements:

- a) EC technical advisor estimates using MPCA MIDS model are as follows.
 - Pre-development TSS loads are 220 lbs/year
 - Post-development TSS loads are 176 lbs/year
 - Pre-development TP loads are 1.2 lbs/year
 - Post-development TP loads are 1.2 lbs/year.

Pasture/Paddock Management and Nutrient/Manure Management.

- A manure/nutrient and pasture management plan for this site was provided for review on April 9, 2020 and updated April 27, 2020. As part of the plan the landowner continues to work with the U of M Extension Office and Hennepin County Rural Conservationist for suitable pasture/paddock locations and seed mix to comply with City of Medina's ordinance.
 - The basic components of the plan are comprised of:
 - Upland/pasture areas = 12.9 acres.
 - 8 horses
 - 3 – 10' x 10' x 8' concrete bottom composting units are proposed (location not provided) for approximately 1,904 cubic feet of manure/bedding storage.
 - Compost materials not used on-site will be hauled off site two times a year or as necessary.
 - 2-3 grass paddocks and 3 dry lot paddocks proposed.
 - Pasture is supplemental forage. Primary feed will be hay and grain.
 - Exclusion fencing is provided for wetland and buffer protections.
- 4) No wetlands impacts are proposed on this site. The City of Medina is the Local Government Unit in charge of administering the MN Wetland Conservation Act and has approved the wetland delineation for this site plan.
- 5) Wetland Buffers meet the Commission standard.
- a. Wetland buffer widths meet the Commission's standard of 10' minimum, 25' average.
 - b. Wetland buffer monumentation is provided on the site plans
 - c. Buffer areas disturbed by construction activities are proposed to be restored to MNDOT native upland buffer vegetation mix 35-241.
- 6) Grading and erosion control/SWPP plans meet the Commission standard.

Recommendation to the Elm Creek Watershed Commission:

Approval contingent upon:

- 1) Landowner continues to work with the U of M Extension Office and Hennepin County Rural Conservationist to finalize composting, pasture and paddock management plans.**
- 2) Long-term pond/basin operation and maintenance plan and agreement with the City of Medina will be necessary. This agreement must be recorded on the land title with a copy of the recorded agreement provided to the Commission.**

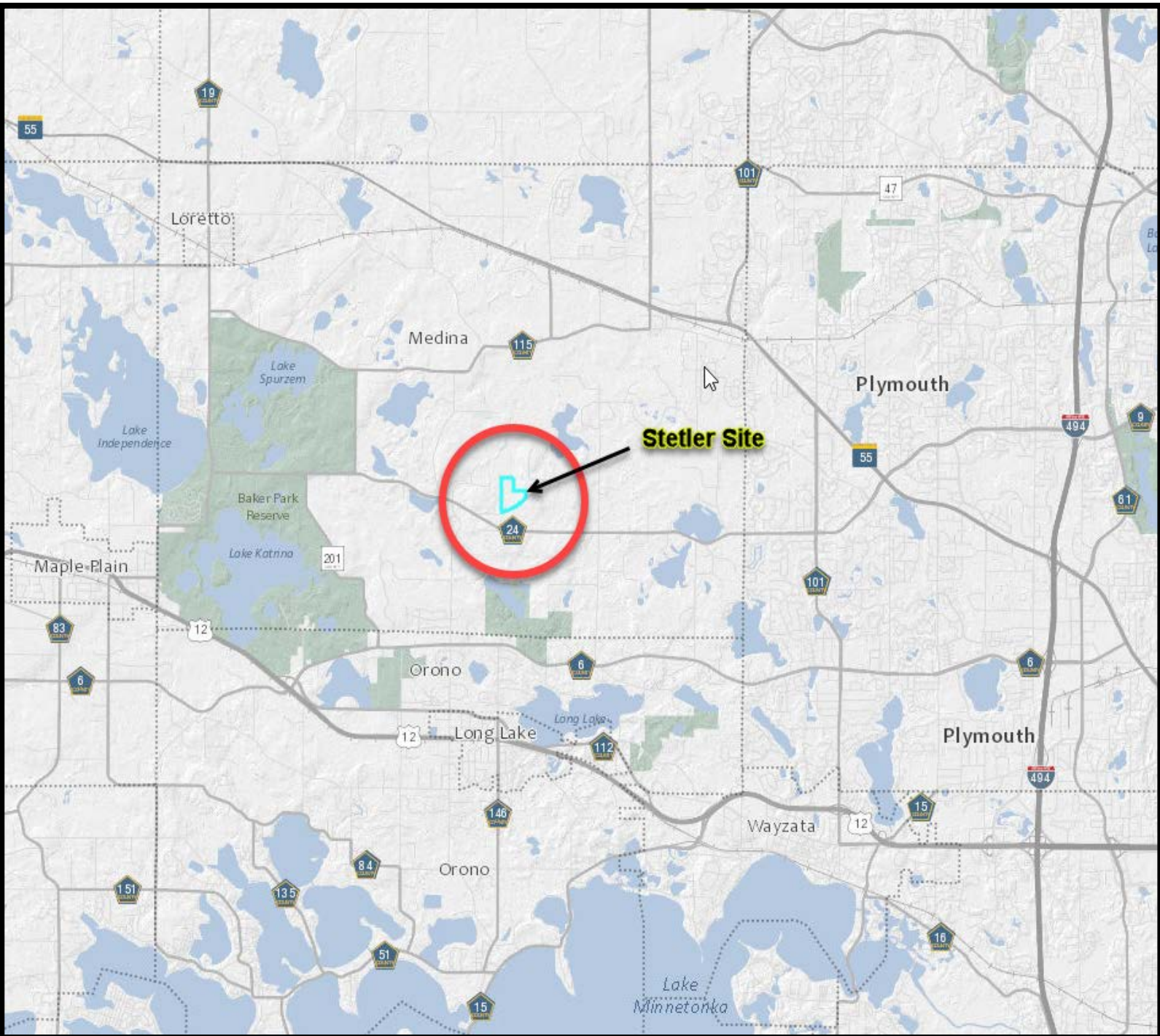
Technical Advisor
Barr Engineering



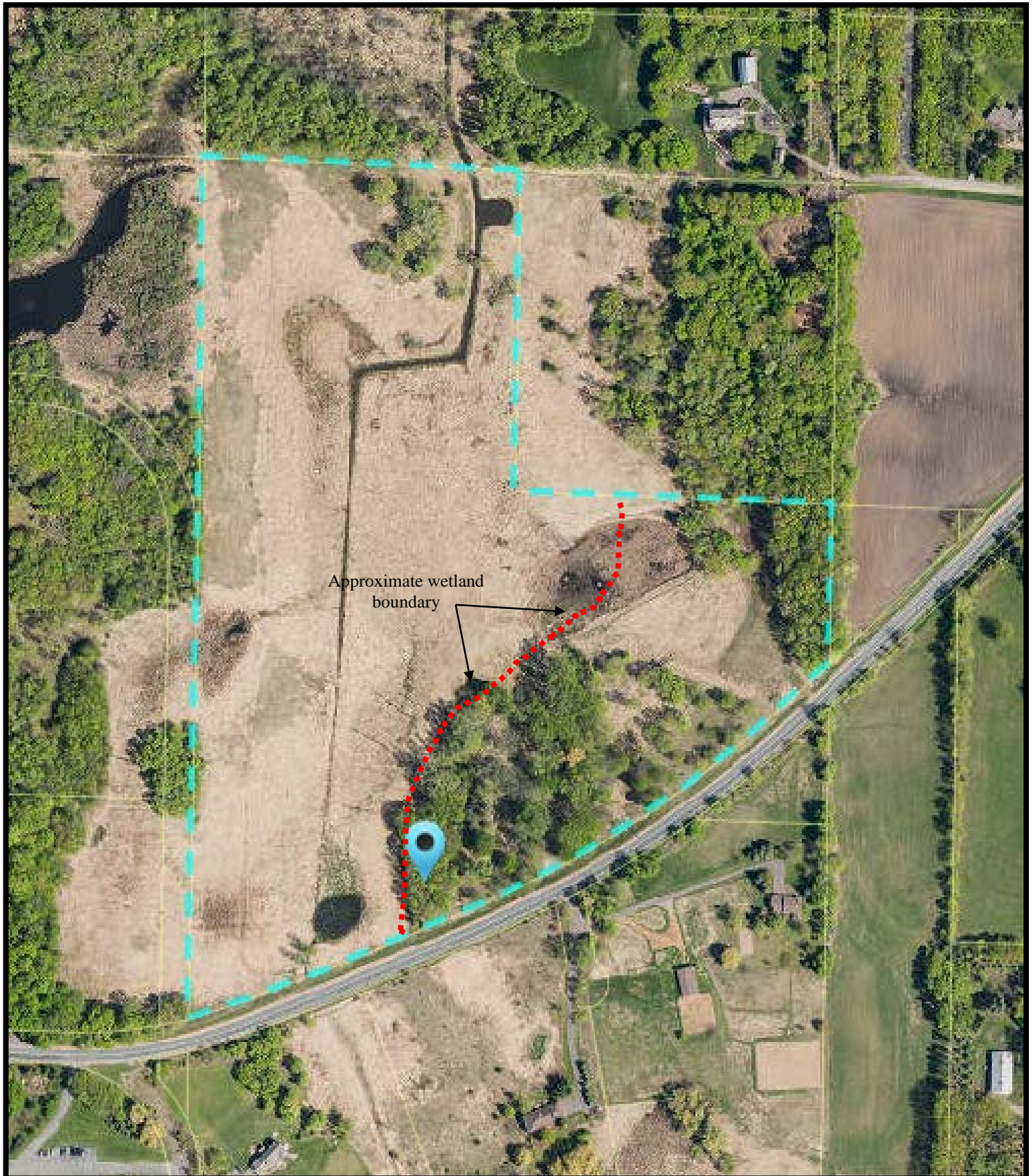
James C. Kujawa,
Surface Water Solutions LLC

May 4, 2020
Date

Project Location Map



2018 Aerial Photo





elm creek

Watershed Management Commission

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Birchwood **Rogers, Project #2020-010**

Project Overview: This project is located on the east side of CR 13 (Brockton Lane) ¼ mile south of the intersection of CR 144 (141st Ave. N.) and CR 13. It consists of two parcels that total 21.15 acres. It is currently all cropland with a 1.0-acre farmstead in the SW corner and a 1.17-acre farmed wetland in the NW corner. The applicant is proposing to develop the site into 61 single family residential lots and one amenity lot creating 7.73 acres of new impervious areas. The Commission's review will be for conformance to our 3rd Generation Stormwater Management Plan Appendix 0, Rule D (Stormwater Management), Rule E (Erosion and Sediment Control), Rule I (Buffer Strips)

Applicant & Agent: DR Horton, Inc.-Minnesota, Attention Reid Schulz, 20860 Kenbridge Court, Suite 100, Lakeville, MN 55044. Phone: 952-985-3757. Email: rtschulz@drhorton.com

Engineer: Westwood Professional Services, Attention Christian Froemke, 12701 Whitewater Drive, Suite 300, Minnetonka, MN 55343. Phone: 952-937-5150.

Exhibits:

- 1) ECWMC Request for Plan Review and Approval dated January 27, 2020, received April 10, 2020.
- 2) Project review fees, \$2,200 received April 23, 2020.
- 3) Birchwood Construction Plans for Grading, Drainage and Erosion Control by Westwood Professional Services dated May 5, 2020.
 - a. Sheet 1 of 10, Cover Sheet
 - b. Sheets 2 to 4 of 10 Grading and Drainage Plan
 - c. Sheets 5 & 6 of 10, Erosion Control Plan
 - d. Sheet 7 of 10, Typical Sections
 - e. Sheets 8 & 9 of 10, Street Profiles
 - f. Sheet 10 of 10, Details
- 4) Birchwood Rogers Preliminary Plans dated March 24, 2020 with latest revision date of April 13, 2020.
 - a. Sheet 1 of 22, Cover
 - b. Sheet 2 of 22, Existing Conditions Plan
 - c. Sheet 3 of 22, Preliminary Plat
 - d. Sheets 4 to 6 of 22, Preliminary Grading Plans

- e. Sheet 7 of 22, Preliminary Utility Plan
 - f. Sheets 8 and 9 of 22, Tree Preservation Plan and Tree Inventory
 - g. Sheets 10 to 12 of 22, Landscape Plan, Details and Notes.
 - h. Sheets 13 and 14 of 22, Street Profiles
 - i. Sheets 15 to 17 of 22, Sanitary and Watermain Profiles
 - j. Sheets 18 and 19 of 22, Storm Profiles
 - k. Sheet 20 of 22, Preliminary Street Sign Plan
 - l. Sheets 21 and 22 of 22, Details.
- 5) Birchwood Stormwater Management Plan by Westwood dated January 20, 2020. Including HydroCAD report printed April 13, 2020, Geotechnical Evaluation Report by Braun Intertec dated December 16, 2019, and P8 run dated March 13, 2020.

Findings:

General

- 1) A complete application was received on April 23, 2020. The initial 60-day decision period per MN Statute 15.99 expires June 22, 2020.
- 2) This site has flows into two separate watersheds.
 - a. Existing Flows: The westerly 13 acres (10 acres on-site, 3 acres off site) flows into the wetland basin in the NW corner of this project. From there it flows northerly into the Crow River Watershed. The easterly 12 acres (11 acres on site and 1 acre off site) flows into the Grass Lake wetland complex which flows into Diamond Lake then into Diamond Creek, entering Elm Creek at Hayden Lake in the Elm Creek Park Reserve.
 - b. Proposed Flows: The NW 5.3 acres (~5 acres from this site) will flow into the Crow River Watershed and the SE 23 acres (17.5 acres from this site) will flow into the Grass Lake Watershed.
- 3) Existing soils are Lester/Angus/Nessel loams and Hamel/Glencoe clay loams. Soil borings show high clay contents, unsuitable for infiltration.
- 4) If the City of Rogers has agreed to the long-term operation and maintenance of the stormwater basins on this site.

5) Stormwater Management (Rule D)

General

- 1) To manage stormwater on this site, the applicant proposes to:
 - a. Expand an existing pond from the Brockton Meadows development into the NE corner of this site, creating a 10' filter bench around the perimeter of the pond at its NWL.
 - i. Pre-development dead storage = 28,725 cubic feet (0.66 ac. ft. at NWL of 924.5). Live storage for 100-year event = 26,438 cubic feet at HWL of 928.3)
 - ii. Post-development dead storage = 98,446 cubic feet (2.26 ac. ft. at NWL of 920.5). Live storage for 100-year event = 177,526 cubic feet at HWL of 924.6). Filtered storage available between 920.5 and 921.5 (filter bench elevations) = 30,466 cubic feet + pore space of ~ 5,600 cubic feet.
 - iii. Note: NWL on the new pond will be 4.0' lower than the existing pond.

Rate Controls meet the Commission standards

- 1) Peak flows will be controlled from this site by reducing the watershed areas draining into the wetland in the NW corner of the development from 12 acres to 5 and by expanding and modifying the existing pond and outlet control structure in the NE corner of the site.

Rate Control Summary

		2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Northwest to Crow River	Pre-Development (13.39 Acres)	5.48	5.94	28.09
	Post-Development (5.31 Acres)	3.47	5.24	5.76
Northeast Flows	Pre-Development (15.91 Acres)	17.82	36.11	118.09
	Post Development (23.02 Acres)	11.50	30.42	56.32

Abstraction Controls meet the Commission standards

- 1) True abstraction will not occur because soil infiltration rates are too low to absorb a 1.1" rainfall event over 48 hours. In lieu of abstraction, a 10' wide biofiltration bench will be installed around the perimeter of the pond at the NWL with a drain tile located 2 feet below the filter surface. The ponds primary outlet elevation is 1.0' above the NWL. The volume in the pond between the NWL and primary outlet will account for the abstraction on the first 1.1" of rainfall from the 23 acres that drain into it.
 - a. Abstraction required = 30,866 cubic feet
 - b. Filtered volume for abstraction provided = 36,063 cubic feet.
 - c. Drawdown on abstraction volume will occur in 43.3 hours.

Water Quality Controls meet the Commission standard

- 1) The pond expansion and filter bench are the primary water quality controls proposed on this site development.
- 2) P8 water quality model was provided to compare before and after nutrient loads.
- 3) TP loads = 20.8 lbs/year predevelopment vs 20.3 lbs/year post-development
- 4) TSS loads = 5,032 lbs/year predevelopment vs 1,877 lbs/year post-development.

Stormwater Summary

CONDITION (29.3 AC.)	TP LOAD (LBS/YR)	TSS LOAD (LBS/YR)	FILTRATION (CU. FT.) (7.73 ACRES IMPERVIOUS)	ANNUAL VOLUME (AC. FT.)
Pre-development (baseline)	20.8	5,032	N/A	16.85*
Post-development without BMPs	37.6	3,151	30,866	31.22*
Post-development with BMPs	20.3	1,877	36,063	29.65*
Net Change	-0.5	-3,155	-5,197	+12.8*

* Estimates Based on MPCA MIDS Model by ECWMC

Buffer Strips (Rule I) meet the commission standards.

- 1) 21,375 sq. ft. of buffer area is required to meet the required average width.
 - a. This includes the additional area required to account for 45' buffer widths on 3:1 slope graded in the buffer.
 - b. Actual buffer proposed = 22,000 sq. ft.
 - c. Minimum buffer width required = 10'.
 - d. Actual minimum buffer width provided = 20'.
- 2) Existing buffer area is introduced, non-native vegetation from past farming practices.
- 3) Propose buffer area vegetation is MNDOT Native seed mix 35-241, General Mesic Prairie.
- 4) Wetland area is to be seeded into MNDOT Native seed mix 34-262, wet prairie.
- 5) Wetland buffer monumentation locations are provided on the site plans.

Erosion and Sediment Controls (Rule E) Erosion Control Plans meet the Commission standards pending receipt of Stormwater Pollution Prevention Plans (SWPPP).

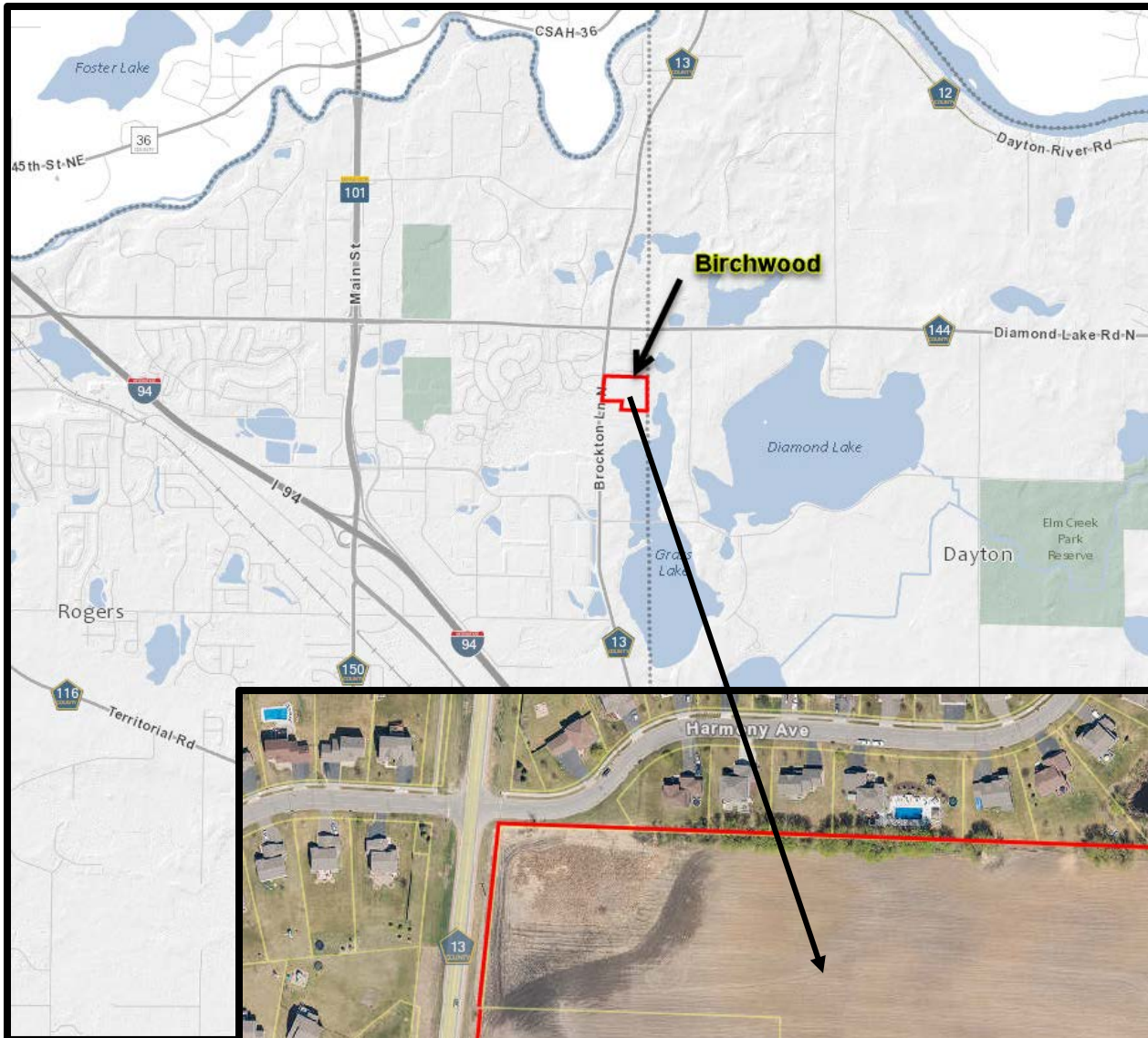
Recommendation: Approval pending receipt of Stormwater Pollution Prevention Plans.

On Behalf of Barr Engineering
Advisor to the Commission

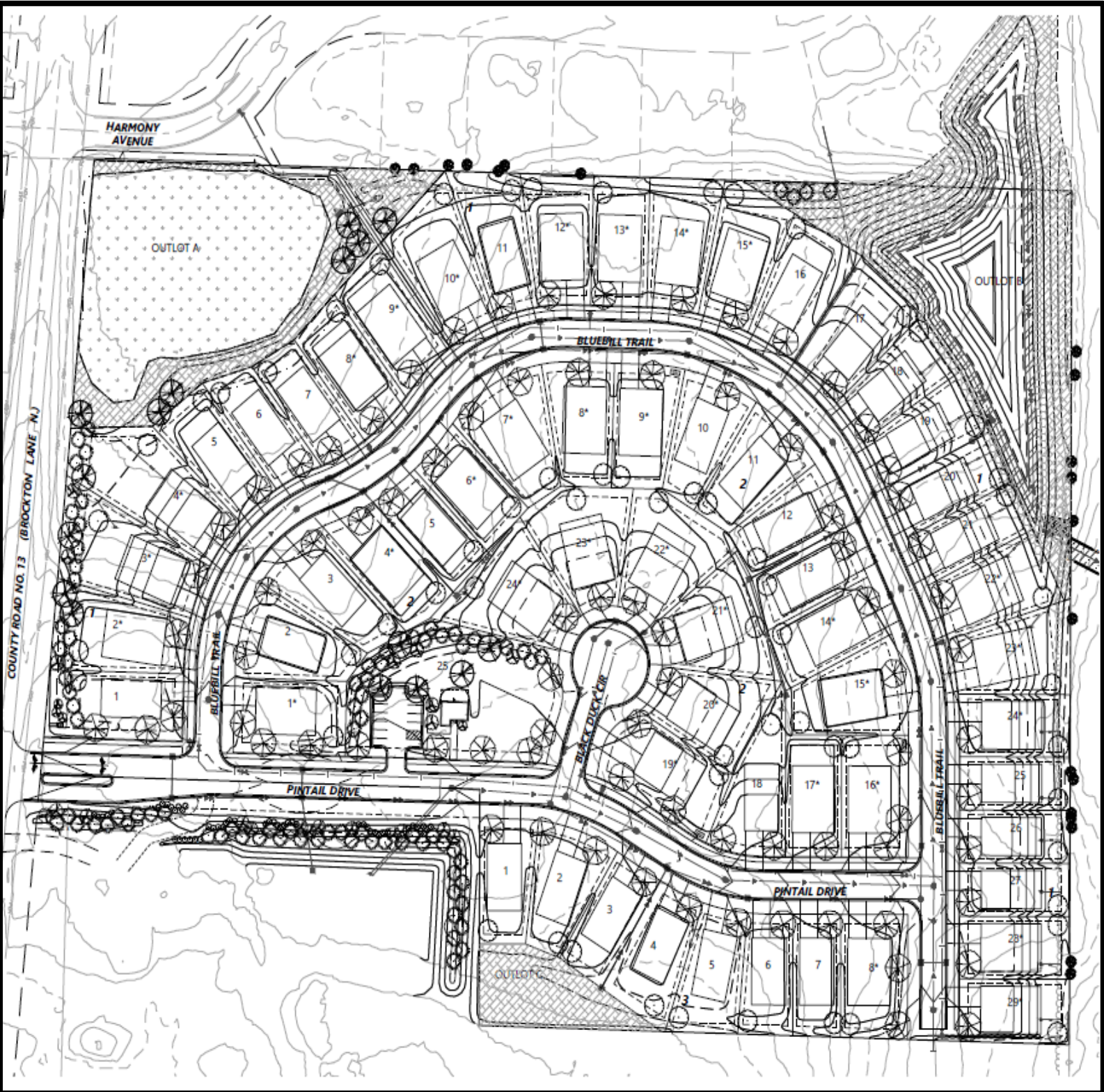


James C. Kujawa
Surface Water Solutions LLC

May 6, 2020
Date



Grading/Landscape Plan



elm creek

Watershed Management Commission

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Bellwether 4th/5th Additions *Corcoran, Project #2020-011*

Project Overview: This project is part of a larger residential and commercial development that was reviewed and approved as the Encore Development (Project #2018-032). The full development covers 140 acres within the Elm Creek watershed west of County Road 101 (Brockton Lane N.) and south of Stieg Road. The full development will construct 400 new single-family homes and 13 acres of commercial area along County Road 101. Renamed the Bellwether development, the 4th/5th additions would construct 20 lots on 45.5 acres. Plans for the 4th and 5th additions were received on April 24, 2020. This review will limit its discussion to verification that final plans for the 4th/5th additions are consistent with the plans approved in 2018. The review will check consistency of the stormwater management plans that were approved.

Applicant: Pulte Group, Attention: Chad Onsgard, 7500 Flying Cloud Drive, Suite 670, Eden Prairie, MN 55344. Phone: 952-229-0723. Email: chad.onsgard@pultegroup.com

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

Exhibits:

- 1) ECWMC Request for Plan Review and Approval and associated fees received DATE
- 2) Bellwether 4th/5th Addition Attachments
 - a. Attachment 1 – Revised XP Model
 - b. Attachment 2 – XP Model with Obstructed Wet7 Outlet
 - c. Attachment 3 – Map 4th Addition Drainage
 - d. Attachment 4 – Appendix E – Outlet Structure Details
 - e. Attachment 6 – Grading Plan
 - f. Attachment 7 – Erosion Control Plan

Findings:**General**

- 1) A complete application was received on April 24, 2020. The initial 60-day decision period ends on June 23, 2020.
- 2) The wetland boundaries and types were approved and noticed by the ECWMC, per WCA requirements, under project 2017-047W on December 28, 2018. The Commission received updated wetland replacement plans from the LGU. The TEP and City have approved the plans.
- 3) The applicant is requesting the and the Commission has granted the authority to administratively approval of this portion of the development of the previously approved plan (Project #2018-032).

Rule D – Stormwater Management

- 4) Minor modifications to internal routing of stormwater from 2018 plan. Pond 8N discharges directly to Wetland 7 instead of being routed through Ponds 7B and 7A.
- 5) Rate controls continue to meet the Commission requirements. A copy of Table 4.6 from the project stormwater management plan shows the summary of site peak discharge rates for the original plan. Design of the 4th/5th additions result in proposed conditions changes are minor and remain less than existing conditions.

Table 4.6 Summary of Site Peak Discharge Rates (cfs)

	Location	2-Year	10-Year	100-Year
Existing Conditions	West	25.6	47.3	104.4
	North	28.8	63.1	135.8
	East	10.9	17.5	31.2
	South	9.6	22.5	45.7
Proposed Conditions	West	24.8	39.2	73.4
	North	8.8	18.9	37.1
	East	3.1	5.8	11.9
	South	5.0	8.5	16.5
Δ Peak Flows	West	-0.8	-8.1	-31.0
	North	-20.0	-44.2	-98.7
	East	-7.8	-11.7	-19.3
	South	-4.6	-14.0	-29.2

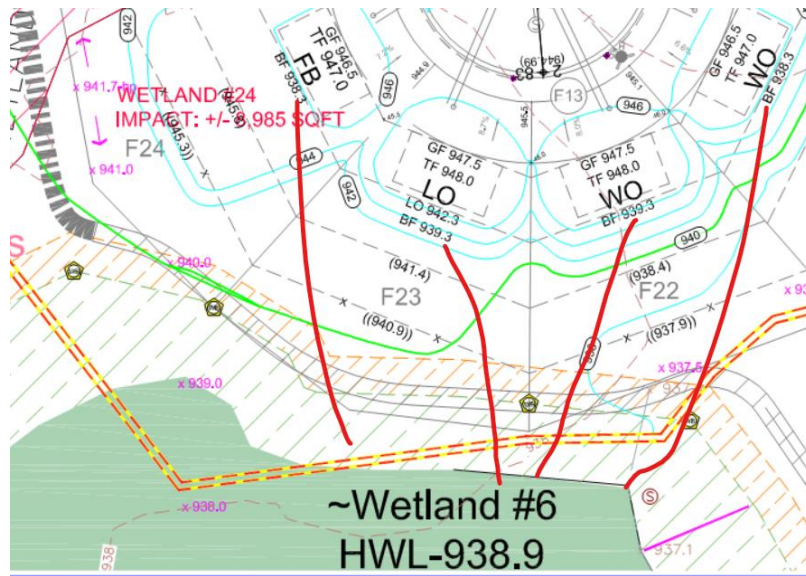
- 6) Abstraction controls in the original plan met the Commission standard. The submission for Bellwether 4th/5th additions did not include a revised stormwater management plan. It is assumed that this portion of the stormwater management plan has not changed.
- 7) Phosphorus and Total Suspended Solid controls in the original plan met the Commission standard. The submission for Bellwether 4th/5th additions did not include a revised stormwater management plan. It is assumed that this portion of the stormwater management plan has not changed.

Rule E – Erosion and Sediment Control

- 8) The erosion control plan meets the Commission standard pending receipt of the MPCA SWPP plan.

Rule F – Floodplain Alterations

- 9) Lots F21, F22, F23, and F24 have basement floor elevations that are less than 2-feet above the high-water level (HWL) for the adjacent Wetland 6.



Rule G – Wetland Alteration

- 10) Wetland alterations were approved with the review of Project #2018-32W. Wetland alternations for the 4th/5th additions appear to be consistent with the original plan.

Decision:

Approval contingent upon:

- 1) Receiving the updated stormwater management plan.
- 2) Receiving a copy of the SWPP Plan.
- 3) Resolution of apparent low floor elevations being less than two feet above adjacent high-water levels.

Barr Engineering Co.

Joseph J. Waln
Advisor to the Commission

Date