

elm creek

Watershed Management Commission

ADMINISTRATIVE OFFICE

3235 Fernbrook Lane • Plymouth, MN 55447

PH: 763.553.1144 • email: judie@jass.biz

www.elmcreekwatershed.org

August 3, 2022

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, August 10, 2022, at 11:30 a.m.** in the **Aspen Room at Plymouth Community Center, 14800 34th Avenue North, Plymouth, MN.** Directions to the Community Center are included below. This venue will be the location for future Commission and TAC meetings.

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

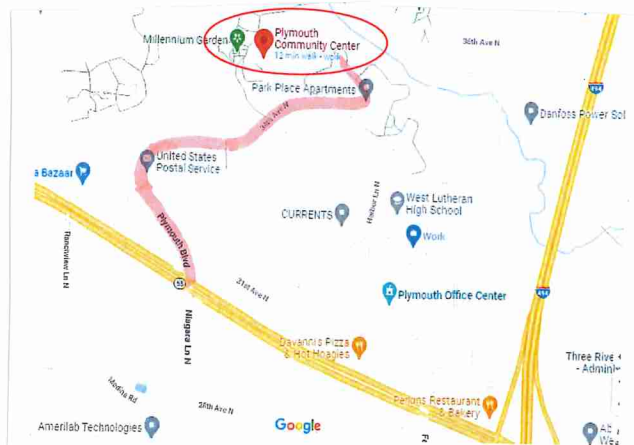
cc: Alternates Erik Megow
TAC Members Karen Galles
City Clerks Brian Vlach
Official Newspaper

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James Kujawa	Rebecca Carlson	Ed Matthiesen
Kris Guentzel	Kevin Ellis	Diane Spector
BWSR	Met Council	MPCA
DNR		

The Plymouth Community Center is located at 14800 34th Avenue North in Plymouth, a few blocks north of Plymouth City Hall. At the intersection of Highway 55 and Plymouth Boulevard, turn north (right) on Plymouth Boulevard and proceed to 34th Avenue. Turn north (right) on 34th Avenue and proceed to the Community Center which is on the left side of the street. Turn left and proceed to the main (entry) parking lot. The Aspen Room is the first room on the left past the lobby inside the main entrance.

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AGENDA Regular Meeting August 10, 2022

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

Aspen Room, Plymouth Community Center, 14800 34th Avenue North, Plymouth, MN.

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.*
 - b. Plan Amendment.*
5. Old Business.
 - a. Fund Balance/Reserve Policy – update Guenther.
 - b. PRAP subcommittee – no update.
6. New Business.
- 7.. Communications.
 - a. Staff Report.*
 - b. Hennepin County Staff Report.*
8. Education.
 - a. WMWA – next meeting – September 13, 2022, at 8:30 a.m., via Zoom.
9. Grant Opportunities and Updates.
 - a. Authorize CWF Grant Submittal.*
 - 1) CSAH 12 Ravine Stabilization.**
 - 2) South Fork Rush Creek Stabilization.*
10. Project Reviews.

Item No.	E	A	I RPF	AR	Project No.	Project Name
			RP DD			
					W=wetland project	
ca.				AR	2014-015	Rogers Drive Extension, Rogers.
cb.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
cc.				AR	2016-005W	Ravinia Wetland Bank Plan, Corcoran.
cd.				AR	2017-014	Laurel Creek, Rogers.

*in meeting packet

**available at meeting or on website

ce.				AR	2017-029	Brayburn Trails, Dayton.
a.					2017-050W	Ernie Mayers Wetland/floodplain violation, Corcoran.
cf.				AR	2018-046	Graco, Rogers.
cg.				AR	2018-048	Faithbrook Church Phase 2, Dayton.
ch..				AR	2019-021	Brenly Meadows, Rogers.
ci.				AR	2019-026	Interstate Power Systems, Rogers.
cj.				AR	2019-027	Havenwood at Maple Grove.
ck.				AR	2020-008	lone Gardens, Dayton.
cl.				AR	2020-009	Stetler Barn, Medina.
cm.				AR	2020-017	Meadow View Townhomes, Medina.
cn.				AR	2020-023	Ziegler Dayton Site Upgrades, Dayton.
co.				AR	2020-032	Enclave Rogers - Commerce Boulevard, Rogers.
cp.				AR	2020-033	Weston Woods, Medina.
cq.				AR	2020-036	Balsam Pointe, Dayton.
cr.				AR	2021-007	Birchwood 2nd Addition, Rogers
cs.				AR	2021-016	Territorial Lofts, Rogers.
ct.				AR	2021-020	Crew Carwash, Maple Grove.
cu.				AR	2021-021	Territorial Triangle, Dayton.
cv.				AR	2021-023	Maple Grove Medial Office Building (MOB).
cw.				AR	2021-024	Riverwalk, Dayton
b.					2021-025	Hackamore Road Reconstruction, Medina/Corcoran.
c.					2021-026	Prairie Creek Subdivision, Medina.
cx.					2021-027	Xcel Energy Elm Creek Substation, Maple Grove
d.					2021-028	The Cubes at French Lake, Dayton
e.					2021-029	Tri-Care Grocery / Retail, Maple Grove
f.					2021-031	Cook Lake Edgewater, Maple Grove
g.					2021-034	BAPS Hindu Temple, Medina.
cy.					2021-035	Mister Car Wash - Rogers
cz.					2021-036	D & D Service, Corcoran.
h.					2021-037	Marsh Pointe, Medina.
i.					2021-038	Bellwether 6th/Amberly, Corcoran.
j.					2021-039	1-94 Logistics Center, Rogers.
da.					2021-040	Napa Auto, Corcoran.
db.					2021-041	Carlson Ridge, Plymouth.
k.					2021-043	Northwood Community Church Maple Grove.
l.					2021-044	Balsam II Apartments, Dayton.
m.					2021-046	Len Busch Roses, Plymouth
n.					2021-047	CR 10 Box Culvert Replacement, Corcoran
o.					2021-048	Bellwether - Newman West, Corcoran
p.					2021-049	Dayton Interchange Business Center, Dayton.
q.					2021-050	Evanswood, Maple Grove.
r.					2021-051	Fields of Nanterre Drainage Improvements, Plymouth.
s.					2021-052	Norbella Senior Living, Rogers.
t.					2021-053	Towns at Fox Creek, Rogers.
u.					2021-054	Stotts Family Farm Grassed Waterways, Corcoran.
v.					2021-055	Morningside Estates 6 th Addition, Champlin.
w.					2022-001	Dayton Field 2nd Addition, Dayton.
x.					2022-002	Summerwell, Maple Grove.
y.					2022-003	Fox Briar Ridge East, Maple Grove.
z.					2202-005	Bellwether 7 th , Corcoran.
aa.	A	E			2022-006	Hamel Townhomes, Medina.
ab.					2022-007	Weston Commons 2nd, Maple Grove.
ac					2022-008	Bechtold Farm, Corcoran.

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ad.				2022-009	Dunkirk Lane Development, Plymouth.
ae.				2022-010	Unity Tool Building Addition, Dayton.
af.				2022-011	Arrowhead Drive turn Lane expansion,
ag.				2022-012	Graco Building 2, Dayton.
ah.				2022-013	Dayton 94 Industrial Site, Dayton.
ai.				2022-014	Aster Mill, Rogers.
aj.				2022-015	County Road 47 Phase I Reconstruction, Plymouth.
ak.				2022-016	Rogers Activity Center, Rogers.
al.				2022-017	City Center Drive, Corcoran.
am.				2022-018	Big Woods, Rogers.
an.				2022-019	Grass Lake Preserve, Dayton.
ao.				2022-020	Skye Meadows Extension, Rogers.
ap.				2022-022	Cook Lake Highlands, Corcoran.
aq.				2022-023	Asguard, Rogers.
ar.				2022-024	Bridge No. 27J70, Maple Grove.
as.				2022-025	Harvest View, Rogers.
at.				2022-026	Archway Building, Rogers
au.				2022-027	Edison at Maple Grove Apartments.
av.				2022-028	Elsie Stephens Park, Dayton.
aw.				2022-029	Hayden Hills Park, Dayton.
ax.	A	E		2022-030	Garages Too, Corcoran.
ay.				2022-031	Corcoran II Substation.
az.				2022-032	EC Stream Restoration Phase 5, Champlin.
ba.				2022-033	Pet Suites, Maple Grove.
bb.	A	E		2022-034	CSAH 101 Improvements, Maple Grove.
bc.				2022-035	Rush Hollow, Maple Grove.
bd.				2022-036	West French Lake Road Improvements, Maple Grove.
be.	A	E		2022-037	CSAH13 CR203 Culvert replacement, Dayton.
bf.	A	E		2022-038	Tavera North Side, Corcoran.
bg.				2022-039	Garland Commons, Maple Grove.

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

11. Other Business.

12. Adjournment.

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MINUTES Regular Meeting July 13, 2022

I. A meeting of the Elm Creek Watershed Management Commission was called to order at 11:32 a.m., Wednesday, July 13, 2022, in the Mayor's Conference Room, Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN, by Chair Doug Baines.

Present were: Bill Walraven, Champlin; Ken Guenthner, Corcoran; Doug Baines, Dayton; Joe Trainor, Maple Grove; Terry Sharp, Medina; Catherine Cesnik, Plymouth; and David Katzner, Rogers.

Also present: Kevin Mattson, Corcoran; Derek Asche, Maple Grove; Ben Scharenbroich and Hailey Olson, Plymouth; Diane Spector and Erik Megow, Stantec; James Kujawa, Surface Water Solutions; Kevin Ellis, Hennepin County Environmental Services (HCEE); Brian Vlach, Three Rivers Park District (TRPD); Judie Anderson, JASS; Conner Deur, Sambatek, for Project 2022-012, and E.I. Tinklenberg, JPL Development, for Project 2022-027.

A. Motion by Walraven, second by Sharp to approve the **agenda*** with removal of item 10.az. Project 2022-030 Garages Too, from the action items. *Motion carried unanimously.*

B. Motion by Cesnik, second by Walraven to approve the **minutes*** of the June 8, 2022, regular meeting. *Motion carried unanimously.*

C. Motion by Guenthner, second by Sharp to approve the July **Treasurer's Report** and **Claims*** totaling \$88,022.70. *Motion carried unanimously.*

[Trainor arrived 11:34 a.m., Katzner arrived 11:36 a.m.]

II. Open Forum.

III. Action Items.

IV. Project Reviews.

A. **2021-049 Dayton Interchange Business, Dayton.** This is a 14-acre site, proposed to be developed into a 124,000 SF office/warehouse building along with truck staging area, parking areas and related utilities. Two filtration basins are proposed for stormwater management and construction of 6.93 acres of new impervious areas. In their findings dated June 26, 2022, Staff recommends approval contingent upon. 1) An operation and maintenance plan for the stormwater facilities on this site being approved by the City of Dayton; 2) Filter media mix C in the detail for Basin 1 on sheet 9.01 be changed to Mix C; and 3) Final application escrow fee balance determination. Motion by Trainor, second by Cesnik to approve staff's recommendations. *Motion carried unanimously.*

B. **2022-010 Unity Tool Building Addition, Dayton.*** This site is located at the northeast intersection of County Road 81 and Troy Lane, across CR 81 from the Auto Auction site. The plan proposes to disturb 1.4 acres to expand the existing building by 16,075 square feet, reconfiguring the surface pavement and landscape areas, construct a stormwater basin and install site utilities. Staff's findings and recommendations for revisions received on June 30 are included in this month's packet for the Commission's

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RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
RULE H - BRIDGE AND CULVERT CROSSINGS
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consideration. Staff recommends approval contingent upon (1) A Stormwater Maintenance Agreement acceptable to the City and the Commission being recorded for all stormwater BMPs on the site that will not be operated and maintained by the City, and (2) Escrow balance determination by the Commission Administrator. Motion by Walraven, second by Guenthner to approve Staff's recommendations as stated in their July 2, 2022, findings. *Motion carried unanimously.*

C. 2022-012 Graco Building 2, Dayton.* Graco purchased this property that was the Liberty Industrial Center, approved by the Commission under project 2015-011. Graco is proposing to replat this site and construct a 515,400 square feet distribution center. Additionally, mass grading on the remaining portion of Outlot H, and Outlots A and B will occur to accommodate two future buildings, regional ponding, and construction of French Lake Road West. In total, 74 acres will be graded. The Commission's review covers Rules D and E on the 74 acres. A complete plan was received March 25. This site plan proposes to encroach into an existing conservation and preservation easement approved by the Commission for project 2015-011. Staff reviewed the plans and revisions received June 22 for compliance with Commission rules. Water quality controls are still concerning to Staff. An updated review and recommendation is included in the meeting packet. The applicant is requesting administrative approval for their grading and erosion control plans. If those plans are consistent with the Commission's standards and guidance and Staff is comfortable with the revision, conditional approval (based on Dayton grading approval and the applicant assuming all risks to meet final Commission approvals) for Rule E will be granted by Staff. Motion by Guenthner, second by Trainor to approve the three recommendations outlined by Staff in their July 6, 2022, findings: (1) final plan set must provide monumentation locations for the buffer strips; (2) an operations and maintenance agreement approved by the city that implement conditions that bind current and future owners of the project shall be recorded on this property; and (3) final escrow balance must be reconciled. *Motion carried unanimously.*

D. 2022-023 Asguard, Rogers.* The proposed redevelopment will consist of a new residential and commercial building containing 71 residential units, retail area with underground parking, a restaurant, and a fuel facility. The project will be located at the intersection of Rogers Drive and 144th Avenue North on a 16.2-acre parcel and will result in 5.52 acres of impervious surface. The Commission review covers Rules D and E. In their findings dated June 27, 2022, Staff recommends approval with three conditions: (1) fee escrow reconciliation, (2) receipt of an Operations and Maintenance Plan acceptable to the City and the Commission within 90 days of the plat being recorded for all stormwater BMPs on the site that will not be operated and maintained by the City; and (3) provision of a detail for the bioinfiltration media and for the southeast bioinfiltration basin to confirm 2-foot separation from groundwater table for SE bioinfiltration basin or a detail showing an impermeable liner. Motion by Walraven, second by Trainor to approve these recommendations. *Motion carried unanimously.*

E. 2022-027 Edison at Maple Grove Apartments.* This project is located on Garland Avenue near the intersection of I-94 and Maple Grove Parkway. It consists of development of a couple of multi-story apartment buildings along with amenities and associated streets and utility infrastructure. In their findings dated June 27, 2022 and revised July 6, 2022, Staff recommended approval with three conditions: (1) reconciliation of escrow fee balance; (2) provision of a Stormwater Maintenance Agreement acceptable to the City and the Commission within 90 days after the plat is recorded for all stormwater BMPs on the site that will not be operated and maintained by the City; and (3) the addition of a phosphorous sorbing amendment to the biofiltration media to meet water quality standards and results as listed in Table 2 of the findings. Motion by Trainor, second by Walraven to approve Staff's recommendation. *Motion carried unanimously.*

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F. 2022-028 Elsie Stephens Park, Dayton.* This is existing park property (~20 acres) located about a mile north of the junction of County Roads 144 (N. Diamond Lake Road) and 12 (Dayton River Road). The project proposes to construct two entrance roads off CR 12, 1,300 feet of park roadways with a parking area and loop road, and a trail system to connect existing and future trails. Site revisions received July 5, 2022, were reviewed by Staff. In their findings dated July 6, 2022, Staff recommends the Commission approve this project contingent upon: (1) pre- and post-construction soil analysis on each infiltration basin to determine that infiltration rates meet or exceed design assumptions; (2) erosion and sediment control meets the Commission's requirements and is approved by Staff; and (3) escrow fee balance reconciliation. Motion by Guenther, second by Trainor to approve Staff's recommendations. *Motion carried unanimously.*

G. 2022-031 Corcoran II Substation, Corcoran.* The project site is located on 2.87 acres at the northeast intersection of Larkin Road and CR 116. Hennepin County PID 2511923230001. It is a 38.91-acre parcel proposed to be subdivided into one lot and two outlots. Block 1, Lot 1 will be the parcel where Wright Hennepin Cooperative Electric Association will place their substation. The remaining areas will be utilized for future development and for ROW along CR 116. In their findings dated July 5, 2022, Staff recommends approval with three conditions: (1) a stormwater operation and maintenance agreement acceptable to Corcoran and the Commission must be recorded by the landowner on this property; (2) the 48-hour drawdown (4,704 cubic feet) on the stormwater basin must be verified post-construction; and (3) escrow fee balance must be reconciled. Motion by Walraven, second by Guenther to approve Staff's recommendations. *Motion carried unanimously.*

H. 2022-032 Elm Creek Restoration Phase 5, Champlin.* This project is located within the Elm Creek Park Reserve, just downstream of Hayden Lake, and just upstream of Elm Creek Crossing. The proposed project scope will include grading of the project area for residential lots, construction of various residential streets and sidewalks and supporting underground utilities, driveways, and stormwater management. NOTE: The purpose stated in the findings dated July 5, 2022, has been revised to read: *The proposed project includes stream bank stabilization, placement of in-stream habitat structures and rock riffles, and restoration of the creek's riparian areas.* Motion by Walraven, second by Cesnik to approve this project pending reconciliation of the escrow balance as stated in Staff's findings. *Motion carried unanimously.*

V. Old Business.

The **PRAP subcommittee** did not meet in June.

VI. New Business.

Guenther informed the Commissioners of the Budget Committee's intent to develop a **Financial Reserves and Fund Balance Policy**.* To begin this process he, Anderson, and Spector will meet with an independent auditor to discuss what an appropriate unreserved/unassigned fund balance should be. Motion by Guenther, second by Trainor to authorize an expenditure not to exceed \$1,000 to have this exploratory discussion. *Motion carried unanimously.* Also included in the meeting packet was a **spreadsheet*** showing the Commission's various fund balances for the years 2015-2021.

VII. Communications.

A. Staff Report.* Staff reports provide updates on the development projects currently under review by Staff or awaiting final recordings. The projects listed in the table beginning on page 7 of these minutes are discussed in the July 1 report.

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B. Hennepin County Staff Report.*

1. Project Updates.

a. Jubert Lake Agricultural BMPs. Hennepin County staff met with Landowner to discuss implementation efforts as well as waterway repairs. Landowner wants to start gravel drain 100-200 feet up the hill. After talking with Wright County SWCD engineer, this may be cost prohibitive. A proposed solution is to install a perpendicular line across the waterway that would outlet to the gravel drain. This practice would require significantly less components and would be more cost effective to repair the seep issue on the installed waterway.

WASCOB (Water And Sediment Control Basin) from the Arens property is now being included into this property as a part of Phase 1B. The practice is being moved over the property line with little complications in terms of design. Hennepin County discussed pool depth and potential wetland impacts of restoration in 1B. Landowner proposed changing the type of wetland to be deeper and more compact. Currently working with EOR to understand if this is feasible.

Targeted installation for 1A projects is August 1, while 1B projects are scheduled for late August.

b. 13861 129th Avenue N., Dayton. Landowner has completed concrete pad, and footings. Houston Engineering is currently finalizing a sub-contract agreement with Sandman Engineering to provide the final roof structure. Landowner provided some feedback on the design to change supports to block columns. Engineers are evaluating this design change and will provide feedback.

c. 22835 County Road 10, Corcoran. Construction has concluded on the livestock fencing. Post construction inspection found no issues with the fence and has started the reimbursement process for the landowner as a part of the cost-share agreement.

2. Buffer inspections will occur in July and August. Random inspections will take place north of County Road 6, and south of County Road 10 this year.

3. Hennepin County Staff met with Ken Guenthner and Corcoran City Planners to discuss potential updates to the **Corcoran Livestock Ordinances**. Discussed potential options for ordinances that would rely on farmable acreage and promote conservation. The meeting also served as an initial introduction between city staff and the range of environmental services that the Hennepin County Department of Environment and Energy provides.

4. In 2021, county staff and three lakes in Maple Grove piloted an exciting and innovative AIS prevention website for lakeshore homeowners! The communication within the website is personalized, is celebrity endorsed, and uses a trusted messenger: the neighbors of lakeshore homeowners. The site ultimately helps to create a lake-wide commitment, fun statistics celebrating lake activities, and best of all, it's mobile friendly! (Note: a full media kit that includes newsletter articles and social media posts is also available.) For more information about Lake Pledge, contact Tony Brough at tony.brough@hennepin.us or 612-348-4378.

5. Help Us Preserve Farmland In Hennepin County. Are you currently farming or looking for land to farm? If so, then Hennepin County wants to hear from you! Hennepin County Environment and Energy is currently exploring programs that could help farmers and rural landowners preserve their land for future generations to sustainably farm. Input from the farming community is critical to understanding the right role for Hennepin County and what could make the most difference.

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This 10-15 minute survey is focused on the challenges you face and the support you need to navigate farmland access in Hennepin County. Information gathered in this survey will help craft potential policies that could help meet the needs of farmers around the county.

If you have any questions or would like more information about this initiative, contact Kevin Ellis, Conservation Specialist, at kevin.ellis@hennepin.us. Take the survey at:

https://forms.office.com/pages/responsepage.aspx?id=n9_vioCHv0aPt0ySRIOovr9pmX9LCvxEjUV0_AvzOCRURVIWUDIZV5k5USTU1Wk9UN1gwMjREOTdGUS4u&web=1&wdLOR=c9DE168C5-0556-474D-9F98-D459186AC334

VIII. Education and Public Outreach.

The West Metro Water Alliance (WMWA) will meet via Zoom at 8:30 a.m., August 9, 2022.

At their July meeting, members of WMWA focused on creating a position description for the education and outreach coordinator. This will be a two-year limited duration Hennepin County position dedicated half time to WMWA/funding partners activities and half time to more general County environmental education and outreach activities.

IX. Grant Opportunities and Project Updates.*

With the addition of the two cost share programs and the Maple Grove South Fork Rush Creek Project in 2022, the table below shows the Commission's **current CIP**. There are additional projects on the CIP that are not programmed for a particular year: the Cowley-Sylvan Connections BMPs project in Rogers, the SE Corcoran Wetland Restoration, as well as some generic placeholder projects. The current Third Generation Plan expires on October 23, 2025, and the Commission must submit a new draft plan and CIP to BWSR by mid-2025 to allow time for agency review and approval.

The Minnesota Board of Water and Soil Resources (BWSR) has released its annual RFP for **Clean Water Fund grant applications**. About \$9.7 million is available statewide for Projects and Practices Grants, which require a 25% local match, and which must be expended by December 31, 2025. Applications are due by August 22.

Motion by Guenther, second by Trainor to direct Stantec to put together applications for Clean Water Fund grants for the CSAH 12/Dayton Road and the South Fork Rush Creek projects for approval at the Commission's August meeting. *Motion carried unanimously.*

Project	Project Cost	Commission Share				
		2022	2023	2024	2025	2026
City Cost Share	\$100,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Partnership Cost Share	50,000	50,000	50,000	50,000	50,000	50,000
S Fork Rush Creek, Maple Grove	3,250,000	406,250	406,250			
Fox Cr S Point, Rogers*	90,000		22,500			
Downtown Pond Exp & Reuse, Rogers	406,000		101,500			
City Hall Parking Lot, Corcoran*	40,000		10,000			

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Project	Project Cost	Commission Share				
		2022	2023	2024	2025	2026
CSAH 12/Dayton Rd Ravine, Dayton	382,000		95,500			
Lowell Pond Raingarden, Champlin	400,000			100,000		
Brockton Ln WQ Impr, Plymouth*	150,000			37,500		
Meadows Playfield, Plymouth	5,300,000			250,000		
Tower Dr W Stormwater, Medina	271,250			67,813		
Bridge, Cartway & Elm Cr, Champlin	950,000			237,500		
Rush Cr Eastman NC Trail Stab, MG*	100,000			25,000		
Lemans Lk WQ Impr, Champlin*	100,000					25,000
Goose Lk Rd Infiltr, Champlin*	200,000					50,000
Mill Pond Area BMPs, Champlin*	200,000					50,000
	\$11,989,250	\$506,250	\$735,750	\$717,813	\$100,000	\$125,000

*Potential candidate for funding through the new Cost Share Program rather than the CIP.

X. Other Business.

XI. Adjournment. There being no further business, motion by Walraven, second by Trainor to adjourn. *Motion carried unanimously.* The meeting was adjourned at 1:40 p.m.

Respectfully submitted,



Judie A. Anderson
Recording Secretary

JAA:tim

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cd.				AR	2017-014	Laurel Creek, Rogers.
ce.				AR	2017-029	Brayburn Trails, Dayton.
a.					2017-050W	Ernie Mayers Wetland/floodplain violation, Corcoran.
cf.				AR	2018-046	Graco, Rogers.
cg.				AR	2018-048	Faithbrook Church Phase 2, Dayton.
ch..				AR	2019-021	Brenly Meadows, Rogers.
ci.				AR	2019-026	Interstate Power Systems, Rogers.
cj.				AR	2019-027	Havenwood at Maple Grove.
ck.				AR	2020-008	Ione Gardens, Dayton.
cl.				AR	2020-009	Stetler Barn, Medina.
cm.				AR	2020-017	Meadow View Townhomes, Medina.
cn.				AR	2020-023	Ziegler Dayton Site Upgrades, Dayton.
co.				AR	2020-032	Enclave Rogers - Commerce Boulevard, Rogers.
cp.				AR	2020-033	Weston Woods, Medina.
cq.				AR	2020-036	Balsam Pointe, Dayton.
cr.				AR	2021-007	Birchwood 2nd Addition, Rogers
cs.				AR	2021-016	Territorial Lofts, Rogers.
ct.				AR	2021-020	Crew Carwash, Maple Grove.
cu.				AR	2021-021	Territorial Triangle, Dayton.
cv.				AR	2021-023	Maple Grove Medial Office Building (MOB).
cw.				AR	2021-024	Riverwalk, Dayton
b.					2021-025	Hackamore Road Reconstruction, Medina/Corcoran.
c.					2021-026	Prairie Creek Subdivision, Medina.
cx.					2021-027	Xcel Energy Elm Creek Substation, Maple Grove
d.					2021-028	The Cubes at French Lake, Dayton
e.					2021-029	Tri-Care Grocery / Retail, Maple Grove
f.					2021-031	Cook Lake Edgewater, Maple Grove
g.					2021-034	BAPS Hindu Temple, Medina.
cy.					2021-035	Mister Car Wash - Rogers
cz.					2021-036	D & D Service, Corcoran.
h.					2021-037	Marsh Pointe, Medina.
i.					2021-038	Bellwether 6th/Amberly, Corcoran.
j.					2021-039	1-94 Logistics Center, Rogers.
da.					2021-040	Napa Auto, Corcoran.
db.					2021-041	Carlson Ridge, Plymouth.
k.					2021-043	Northwood Community Church Maple Grove.
l.					2021-044	Balsam II Apartments, Dayton.
m.					2021-046	Len Busch Roses, Plymouth

RULE D - STORMWATER MANAGEMENT

RULE E - EROSION AND SEDIMENT CONTROL

RULE F – FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION

RULE H – BRIDGE AND CULVERT CROSSINGS

RULE I – BUFFERS

*indicates enclosure

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

elm creek Watershed Management Commission

Regular Meeting Minutes – July 13, 2022

Page 8

n.				2021-047	CR 10 Box Culvert Replacement, Corcoran
o.				2021-048	Bellwether - Newman West, Corcoran
p.				2021-049	Dayton Interchange Business Center, Dayton.
q.				2021-050	Evanswood, Maple Grove.
r.				2021-051	Fields of Nanterre Drainage Improvements, Plymouth.
s.				2021-052	Norbella Senior Living, Rogers.
t.				2021-053	Towns at Fox Creek, Rogers.
u.				2021-054	Stotts Family Farm Grassed Waterways, Corcoran.
v.				2021-055	Morningside Estates 6 th Addition, Champlin.
w.				2022-001	Dayton Field 2nd Addition, Dayton.
x.				2022-002	Summerwell, Maple Grove.
y.				2022-003	Fox Briar Ridge East, Maple Grove.
z.				2022-004	Loram-Scannell Medina Industrial EAW, Medina.
aa.				2202-005	Bellwether 7th, Corcoran.
ab				2022-006	Hamel Townhomes, Medina.
ac				2022-007	Weston Commons 2nd, Maple Grove.
ad.				2022-008	Bechtold Farm, Corcoran.
ae.				2022-009	Dunkirk Lane Development, Plymouth.
af.				2022-010	Unity Tool Building Addition, Dayton.
ag				2022-011	Arrowhead Drive turn Lane expansion,
ah				2022-012	Graco Building 2, Dayton.
ai.				2022-013	Dayton 94 Industrial Site, Dayton.
aj.				2022-014	Aster Mill, Rogers.
ak				2022-015	County Road 47 Phase I Reconstruction, Plymouth.
al.				2022-016	Rogers Activity Center, Rogers.
am.				2022-017	City Center Drive, Corcoran.
an.				2022-018	Big Woods, Rogers.
ao.				2022-019	Grass Lake Preserve, Dayton.
ap,				2022-020	Skye Meadows Extension, Rogers.
aq.				2022-021	Dayton 94 EAW
ar.				2022-022	Cook Lake Highlands, Corcoran.
as.				2022-023	Asguard, Rogers.
at.	A	E		2022-024	Bridge No. 27J70, Maple Grove.
au.				2022-025	Harvest View, Rogers.
av				2022-026	Archway Building, Rogers
aw.				2022-027	Edison at Maple Grove Apartments.
ax.				2022-028	Elsie Stephens Park, Dayton. Still being reviewed
ay				2022-029	Hayden Hills Park, Dayton.
az.				2022-030	Garages Too, Corcoran.

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

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

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

*indicates enclosure

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

Elm Creek Watershed Management Commission Treasurer's Report

		2022 Budget	July 2022	Aug 2022	2022 Budget YTD
EXPENSES					
Administrative		95,000	11,069.26	9,271.98	70,265.50
Grant Writing		500			0.00
Website		3,000	46.20	35.00	405.60
Legal		2,000	201.50	170.50	682.00
Audit		6,000		6,700.00	6,700.00
Insurance		3,800			3,765.00
Meeting Expense					1,250.00
Miscellaneous/Contingency		1,000			0.00
Floodplain Mapping		0	17,009.00		44,661.75
Project Review Technical		107,500	40,915.75	23,659.00	129,076.25
Other Technical		77,500	15,977.25	6,542.75	46,917.25
Project Reviews - Admin Support		15,000	2,597.84	2,502.30	12,825.37
Stream Monitoring USGS		24,000			0.00
Stream Monitoring TRPD		9,345			0.00
DO Longitudinal Survey		1,200			0.00
Rain Gauge		420	32.65	34.77	214.20
Lakes Monitoring - CAMP		840			0.00
Lakes Monitoring - TRPD					0.00
Sentinel Lakes		8,460			0.00
Additional Lake		1,352			0.00
Aquatic Vegetation Surveys		1,300			0.00
Wetland Monitoring (WHEP)		4,000			0.00
Education		2,500	68.25		1,158.94
WMWA General Activities		5,000			0.00
WMWA Implementation/Watershed Prep		4,500			0.00
Rain Garden Wkshops/Intensive BMPs/Special Proj		2,000			0.00
Macroinvertebrate Monitoring-River Watch		3,000			0.00
Studies / Project ID / SWA		0			0.00
CIPs General		3,000	105.00		897.46
Rush Creek SWA Implementation		106,050			
Plan Amendment		2,000		157.50	1,022.82
Contribution to 4th Gen Plan		12,500			0.00
Transfer to (from) Capital Projects (see CIP Tr		291,638		150,000.00	150,000.00
Transfer to (from) Cash Sureties (see below)			-	-	504.11
Transfer to (from) Grants (see below)		125,000	-	67,243.00	67,243.00
To Fund Balance					0.00
TOTAL - Month			88,022.70	266,316.80	537,589.25
TOTAL Paid in 2022, incl late 2021 Expenses		931,405.00	356,998.96	623,315.76	2022 Paid

Elm Creek Watershed Management Commission Treasurer's Report

		2022 Budget	July 2022	Aug 2022	2022 Budget YTD
INCOME					
Project Review Fee		107,500	17,550.00		114,900.00
Refund Project Fee					0.00
Nonrefundable Admin		15,000	1,550.00		10,400.00
Nonrefundable Technical		16,125	2,325.00		15,600.00
Water Monitoring - TRPD Co-op Agmt		6,000			0.00
Member Dues		237,300			237,300.00
Interest/Dividends Earned		5,250	2,036.46		4,323.70
Transfer to (from) Capital Projects (see CIP Tr		291,638	152,142.02		152,142.02
Transfer to (from) Grants (see below)		125,000	67,243.00	-	67,243.00
Rush Creek SWA Implementation		79,537			
Transfer from Assigned Fund Balance		26,513			
Misc Income / Contingency		10,750			0.00
From Unrestricted Cash Reserves		10,792			0.00
Total - Month			242,846.48	0.00	601,908.72
TOTAL Rec'd 2022, incl late 2021 Income		931,405.00	611,359.71	611,359.71	2022 Received
CASH SUMMARY		Balance Fwd			
Checking		0.00			
4M Fund		1,503,168.70	1,757,529.45	1,491,212.65	
Cash on Hand			1,757,529.45	1,491,212.65	
Claims Presented		General Ledger Account No	July	August	TOTAL
Campbell Knutson - Legal		521000		170.50	170.50
Connexus - Rain Gauge		551100		34.77	34.77
City of Champlin -EC Restoration Phase IV					217,243.00
Paid from CIP 2019-06		563021		150,000.00	
Paid from 2018 BWSR WBIF Grant		584003		67,243.00	
Johnson & Company - Audit, Financial Prep		521000		6,700.00	6,700.00
Surface Water Solutions					6,356.25
Project Review Technical		578050		5,781.25	
Other Technical		578050		575.00	
Stantec					23,845.50
Project Review Technical		578050		17,877.75	
Other Technical		578050		5,967.75	
HUC-8 Review -Floodplain Mapping		580440			
Plan Amendment Technical		541500			
JASS					11,966.78
Administration		511000		9,271.98	
TAC Support		511000			
Website		581000		35.00	
Project Reviews		578100		2,069.00	
Project Reviews - Project Specific Admin		578100		433.30	
Plan Amendment		541500		157.50	
Education		590000			
CIPs General		563001			
TOTAL CLAIMS					266,316.80



City of Champlin
11955 Champlin Drive
Champlin, MN 55316
Phone: 763-421-8100

INVOICE

Billed To:
ELM CREEK WATERSHED MANAGEMENT
COMMISSION
3235 FERNBROOK LANE
PLYMOUTH, MN 55155

DATE: 6/30/2022
INVOICE #: INV00205
DUE DATE: 7/30/2022
TOTAL DUE: 217,243.00

CUSTOMER ACCOUNT # : 0061

ITEM DESCRIPTION	UNITS	PRICE	TAX	AMOUNT
ECWMC CIP - Elm Creek Stream Restoration Project Phase IV	1.00	150,000.0	0.00	150,000.00
WBIF - Elm Creek Stream Restoration Project Phase IV	1.00	67,243.00	0.00	67,243.00
TOTAL THIS INVOICE				217,243.00

For questions, contact Finance at 763-421-8100

REMIT TO:

City of Champlin
11955 Champlin Drive
Champlin, MN 55316

Please send your remittance and copy of this invoice to
ATTN: ACCTS RECEIVABLE. Thank you!

CAMPBELL KNUTSON
Professional Association
Attorneys at Law
Federal Tax I.D. #41-1562130
Grand Oak Office Center I
860 Blue Gentian Road, Suite 290
Eagan, Minnesota 55121
(651) 452-5000

Elm Creek Watershed Management Commission
c/o Judie A. Anderson, Exec. Secty.
3235 Fernbrook Lane
Plymouth MN 55447

Page: 1
June 30, 2022
Account # 1448G

SUMMARY STATEMENT

PREVIOUS BALANCE	FEES	EXPENSES	CREDITS	PAYMENTS	BALANCE
------------------	------	----------	---------	----------	---------

1448-0000 RE: GENERAL MATTERS

SERVICES RENDERED TO DATE:

232.50	170.50	0.00	0.00	-31.00	<u>\$372.00</u>
--------	--------	------	------	--------	-----------------

PAID 7/13 -201.50

Now DUE \$170.50

Amounts due over 30 days will be subject to a finance charge of
.5% per month (or an annual rate of 6%). Minimum charge - 50 cents.

CAMPBELL KNUTSON
Professional Association
Attorneys at Law
Federal Tax I.D. #41-1562130
Grand Oak Office Center I
860 Blue Gentian Road, Suite 290
Eagan, Minnesota 55121
(651) 452-5000

Elm Creek Watershed Management Commission
c/o Judie A. Anderson, Exec. Secty.
3235 Fernbrook Lane
Plymouth MN 55447

Page: 1
June 30, 2022
Account # 1448-0000G
239

RE: GENERAL MATTERS
SERVICES RENDERED TO DATE:

			HOURS	
06/01/2022	JJJ	Emails Judie re: citizen comments/agenda management questions.	0.30	46.50
06/17/2022	JJM	Research data practices.	0.20	31.00
	SMM	Review emails (x5) from Judie Anderson re: DPA; respond.	0.60	93.00
		AMOUNT DUE	1.10	170.50
		TOTAL CURRENT WORK		170.50
		PREVIOUS BALANCE		\$232.50
06/15/2022		Payment - thank you		-31.00
		TOTAL AMOUNT DUE		<u>\$372.00</u>

PAID 7/13 - 201.50

Now Due \$ 170.50

Amounts due over 30 days will be subject to a finance charge of .5% per month (or an annual rate of 6%). Minimum charge - 50 cents.



Account Number:
481113-238425

ELM CREEK WATERSHED MGMT ORG

Monthly Statement

Service Address
ELM CREEK RD
DAYTON MN

Billing Summary

Billing Date: Jul 18, 2022

Previous Balance	\$32.65
Payments - Thank You!	\$32.65
Balance Forward	\$0.00
New Charges	\$34.77

Total Amount Due **\$34.77**

Payment must be received on or before August 13, 2022

Total Amount Due

\$34.77

Due Date

August 13, 2022

Message Center

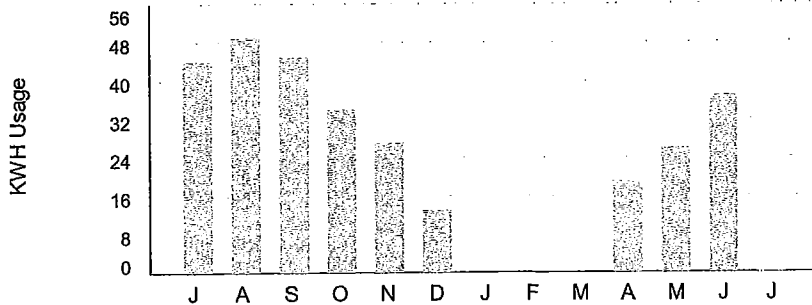
2022 Rebate Reminder

Rebates maybe available for technological or other high-efficiency electricity improvements you may be considering. Don't delay, contact businessaccounts@connexusenergy.com to see what may be available for you. Rebate deadline is November 15, 2022.

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-006992/006293 VG1DS3 S1-ET-M1-C00002 1



Account Number:

481113-238425

Total Amount Due

\$34.77

Payment Due By

August 13, 2022

006992 1 AB 0.488 002998/006992/006293 023 02 VG1DS3
ELM CREEK WATERSHED MGMT ORG
3235 FERNBROOK LN N
PLYMOUTH MN 55447-5325



Connexus Energy
PO Box 1808
Minneapolis, MN 55480-1808

00003477 0004811130238425 000000 00000 000000000000 0000006

Johnson & Company, Ltd.
3255 Fernbrook Lane North
Minneapolis, MN 55447
(952) 525-9500

ELM CREEK WATERSHED MANAGEMENT COMMISSION
3235 FERNBROOK LANE N
PLYMOUTH, MN 55447

Client # : 4274

Invoice Number : 345312

Invoice Date : Thursday, June 30, 2022

For Professional Services Rendered :

Analyze and adjust the books and records for the year ended December 31, 2021.	500.00
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Preparation of report on audited financial statements for the year ended December 31, 2021.	6,200.00
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Total Invoice Amount	<u>\$6,700.00</u>
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INVOICE

Comments

Stantec Project #

Invoice Date: July 9, 2022

Invoice Number: 2022-06

James C. Kujawa
 Surface Water Solutions LLC
 6533 Nedderson Circle
 Brooklyn Park, MN 55445-3206
 952-456-4091
 surfacewatersolutions@outlook.com

Type	Date	Hours	Job	Task	Memo	Amount	Pay
ECWMC	6/13/2022	0.50	Project Reviews	2022-028	floodplain information/email to applicant	75.00	
ECWMC	6/13/2022	1.00	Project Reviews	2022-012	site plan review/updates	125.00	
ECWMC	6/13/2022	0.50	Technical Services	General	emails/file mgmt/correspondence	62.50	
ECWMC	6/14/2022	2.00	Project Reviews	2022-012	site plan review/updates/email	250.00	
ECWMC	6/15/2022	3.30	Project Reviews	2021-049	review and findings	412.50	
ECWMC	6/15/2022	0.50	Technical Services	Pre-Project Review	convergence call on Roberg Property	62.50	
ECWMC	6/16/2022	1.20	Project Reviews	2021-049	review and findings/email	150.00	
ECWMC	6/17/2022	0.40	Project Reviews	2022-012	email correspondence to Sambatek	50.00	
ECWMC	6/17/2022	1.00	Technical Services	General	Archive search and ECWMC boundary	125.00	
ECWMC	6/17/2022	0.40	Technical Services	General	Conference Call with EIM ECWMC updates/overview	50.00	
ECWMC	6/17/2022	1.50	Project Reviews	2022-010	findings/review on revisions	187.50	
ECWMC	6/19/2022	2.75	Project Reviews	2022-010	findings/review on revisions/email to applicant	343.75	
ECWMC	6/20/2022	1.20	Project Reviews	2022-030	findings/review	150.00	
ECWMC	6/21/2022	1.00	Project Reviews	2022-030	findings/review	125.00	
ECWMC	6/22/2022	1.75	Project Reviews	2022-012	Graco emails/phone call/responses on welland issue	218.75	
ECWMC	6/22/2022	0.25	Technical Services	General	analysis and email to EM and JA on MDS	31.25	
ECWMC	6/26/2022	0.50	Project Reviews	2022-010	email to Loucks re. project comments	62.50	
ECWMC	6/27/2022	1.50	Project Reviews	2022-031	project review/findings	187.50	
ECWMC	6/28/2022	0.25	Project Reviews	2022-023	QA/QC	31.25	
ECWMC	6/28/2022	0.30	Project Reviews	2022-027	QA/QC	37.50	
ECWMC	6/29/2022	1.75	Project Reviews	2022-031	project review/findings/email	218.75	
ECWMC	6/29/2022	1.00	Project Reviews	2022-033	Conference Call	125.00	
ECWMC	6/29/2022	2.25	Project Reviews	2022-012	Graco project revisions review and updates/WCA updates	281.25	
ECWMC	6/30/2022	1.50	Project Reviews	2022-030	project revision review/updates/email/phone call	187.50	
ECWMC	7/2/2022	2.00	Project Reviews	2022-010	project review and updates and email to RM for QA/QC	250.00	
ECWMC	7/3/2022	4.25	Project Reviews	2022-012	Project review and updates	531.25	
ECWMC	7/4/2022	3.25	Project Reviews	2022-012	Project review and updates/email	406.25	
ECWMC	7/7/2022	3.00	Project Reviews	2022-030	Project review and updates/email	375.00	
ECWMC	7/5/2022	1.00	Project Reviews	2022-012	Project review/updates/emails	125.00	
ECWMC	7/5/2022	0.20	Technical Services	General	EM call	25.00	
ECWMC	7/6/2022	2.50	Project Reviews	2022-028	project review and updates and email to RM for QA/QC	312.50	
ECWMC	7/6/2022	1.25	Technical Services	Meetings	staff report updates	156.25	
ECWMC	7/7/2022	0.75	Project Reviews	2022-012	project report update	93.75	
ECWMC	7/7/2022	1.00	Project Reviews	2022-030	project review updates/conference call	125.00	
ECWMC	7/7/2022	0.50	Technical Services	Meetings	meeting updates	62.50	
ECWMC	7/7/2022	0.50	Project Reviews	2022-028	project review updates/email	62.50	
ECWMC	7/8/2022	1.50	Project Reviews	2022-030	project review/updates/email/phone calls	187.50	
ECWMC						0.00	
ECWMC						0.00	
ECWMC						6,356.25	
Total						6,356.25	

Pre-Project Reviews (100) \$62.50
 Meetings (300) \$218.75
 General (400) \$293.75
 Project Reviews (200) \$5,781.25
 \$6,356.25

2021-049 \$562.50
 2022-010 \$843.75
 2022-012 \$1,956.25
 2022-023 \$31.25
 2022-027 \$37.50
 2022-028 \$450.00
 2022-030 \$1,368.75
 2022-031 \$406.25
 2022-033 \$125.00
 \$5,781.25



INVOICE

Page 1 of 7

Invoice Number	1960089
Invoice Date	August 1, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Bill To

Elm Creek Watershed Management Commission
Accounts Payable
3235 Fernbrook Lane
Plymouth MN 55447
United States

Please Remit To

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

Project Elm Creek '22 Technical Services

Project Manager	Megow, Erik Robert	Contract Upset	185,000.00
Current Invoice Total (USD)	23,845.50	Amount Billed to Date	149,581.00
		For Period Ending	July 22, 2022

Accounting to email att: Judie Anderson at judie@jass.biz; Beverly@jass.biz

Top Task 100 2022 Prereviews and General Inquiries

Low Task 100 2022 Prereviews and General Inquiries

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	3.25	165.00	536.25
Subtotal Professional Services	3.25		536.25

Low Task Subtotal 2022 Prereviews and General Inquiries 536.25

Top Task Subtotal 2022 Prereviews and General Inquiries 536.25

Top Task 200 2022 Project Reviews

Low Task 200.2021.046 Len Busch Roses

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	0.75	165.00	123.75
Subtotal Professional Services	0.75		123.75

Low Task Subtotal Len Busch Roses 123.75

Low Task 200.2021.047 County Rd 10

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	0.75	165.00	123.75
Subtotal Professional Services	0.75		123.75



INVOICE

Page 2 of 7

Invoice Number	1960089
Invoice Date	August 1, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Low Task Subtotal	County Rd 10	123.75
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Low Task	200.2021.052	Norbella Senior Living
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	0.50	165.00	82.50
	Subtotal Professional Services	<u>0.50</u>		<u>82.50</u>

Low Task Subtotal	Norbella Senior Living	82.50
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Low Task	200.2021.053	Towns at Fox Creek
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	0.50	165.00	82.50
	Subtotal Professional Services	<u>0.50</u>		<u>82.50</u>

Low Task Subtotal	Towns at Fox Creek	82.50
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Low Task	200.2022.002	Summerwell Maple Grove
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	1.00	165.00	165.00
	Kaster, Anthony R (Tony)	1.00	181.00	181.00
	Subtotal Professional Services	<u>2.00</u>		<u>346.00</u>

Low Task Subtotal	Summerwell Maple Grove	346.00
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Low Task	200.2022.006	Hamel Townhomes
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Zhang, Lu	5.50	141.00	775.50
	Megow, Erik Robert	1.75	165.00	288.75
	Subtotal Professional Services	<u>7.25</u>		<u>1,064.25</u>

Low Task Subtotal	Hamel Townhomes	1,064.25
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Low Task	200.2022.010	Unity Tool
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Professional Services



INVOICE

Page 3 of 7

Invoice Number	1960089
Invoice Date	August 1, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	1.00	165.00	165.00
Subtotal Professional Services	1.00		165.00

Low Task Subtotal	Unity Tool	165.00
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Low Task	200.2022.012	Graco Building 2
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	1.00	165.00	165.00
Subtotal Professional Services	1.00		165.00

Low Task Subtotal	Graco Building 2	165.00
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Low Task	200.2022.014	Aster Mill
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Zhang, Lu	2.00	141.00	282.00
Megow, Erik Robert	1.00	165.00	165.00
Subtotal Professional Services	3.00		447.00

Low Task Subtotal	Aster Mill	447.00
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Low Task	200.2022.023	Asguard
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Krautmann, Kurt Thompson	1.00	120.00	120.00
Truong, Kaitlen Nguyen (Kaitlin)	0.50	124.00	62.00
Megow, Erik Robert	6.00	165.00	990.00
Subtotal Professional Services	7.50		1,172.00

Low Task Subtotal	Asguard	1,172.00
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Low Task	200.2022.025	Harvest View
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Truong, Kaitlen Nguyen (Kaitlin)	4.00	120.00	480.00
Truong, Kaitlen Nguyen (Kaitlin)	2.50	124.00	310.00



INVOICE

Page 4 of 7

Invoice Number	1960089
Invoice Date	August 1, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Megow, Erik Robert	4.25	165.00	701.25
Subtotal Professional Services	10.75		1,491.25

Low Task Subtotal	Harvest View	1,491.25
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Low Task	200.2022.027	Edison at Maple Grove Apartments
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Krautmann, Kurt Thompson	1.00	120.00	120.00
Truong, Kaitlen Nguyen (Kaitlin)	3.00	124.00	372.00
Megow, Erik Robert	9.75	165.00	1,608.75
Subtotal Professional Services	13.75		2,100.75

Low Task Subtotal	Edison at Maple Grove Apartments	2,100.75
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Low Task	200.2022.028	Dayton Elsie Stephens Park
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	0.75	165.00	123.75
Subtotal Professional Services	0.75		123.75

Low Task Subtotal	Dayton Elsie Stephens Park	123.75
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Low Task	200.2022.031	Corcoran II Substation
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	1.25	165.00	206.25
Subtotal Professional Services	1.25		206.25

Low Task Subtotal	Corcoran II Substation	206.25
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Low Task	200.2022.032	Elm Creek Stream Restoration Phase 5, Champlain
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Krautmann, Kurt Thompson	1.00	120.00	120.00
Megow, Erik Robert	8.50	165.00	1,402.50
Subtotal Professional Services	9.50		1,522.50



INVOICE

Page 5 of 7

Invoice Number	1960089
Invoice Date	August 1, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Low Task Subtotal	Elm Creek Stream Restoration Phase 5, Champlain	1,522.50
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Low Task	200.2022.033	Pet Suites, Maple Grove
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Krautmann, Kurt Thompson	9.00	120.00	1,080.00
Megow, Erik Robert	4.00	165.00	660.00
Subtotal Professional Services	13.00		1,740.00

Low Task Subtotal	Pet Suites, Maple Grove	1,740.00
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Low Task	200.2022.034	CSAH 101 Improvement
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Truong, Kaitlen Nguyen (Kaitlin)	4.00	120.00	480.00
Truong, Kaitlen Nguyen (Kaitlin)	6.25	124.00	775.00
Megow, Erik Robert	8.25	165.00	1,361.25
Subtotal Professional Services	18.50		2,616.25

Low Task Subtotal	CSAH 101 Improvement	2,616.25
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Low Task	200.2022.035	Rush Hollow
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Krautmann, Kurt Thompson	18.75	120.00	2,250.00
Truong, Kaitlen Nguyen (Kaitlin)	1.00	124.00	124.00
Megow, Erik Robert	4.25	165.00	701.25
Subtotal Professional Services	24.00		3,075.25

Low Task Subtotal	Rush Hollow	3,075.25
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Low Task	200.2022.036	W French Lake Rd
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	0.50	165.00	82.50
Subtotal Professional Services	0.50		82.50

Low Task Subtotal	W French Lake Rd	82.50
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INVOICE

Page 6 of 7

Invoice Number	1960089
Invoice Date	August 1, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Low Task 200.2022.037 CSAH 13, CR 203 Culvert Replacement

Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Krautmann, Kurt Thompson	7.50	120.00	900.00
	Megow, Erik Robert	1.00	165.00	165.00
	Subtotal Professional Services	<u>8.50</u>		<u>1,065.00</u>

Low Task Subtotal CSAH 13, CR 203 Culvert Replacement 1,065.00

Low Task 200.2022.038 Tavera - North Side

Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	0.50	165.00	82.50
	Subtotal Professional Services	<u>0.50</u>		<u>82.50</u>

Low Task Subtotal Tavera - North Side 82.50

Top Task Subtotal 2022 Project Reviews 17,877.75

Top Task 300 Meetings

Low Task 300 Meetings

Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	4.50	165.00	742.50
	Spector, Diane F	2.50	187.00	467.50
	Subtotal Professional Services	<u>7.00</u>		<u>1,210.00</u>

Low Task Subtotal Meetings 1,210.00

Top Task Subtotal Meetings 1,210.00

Top Task 400 Other Technical Services

Low Task 400.4000.001 General

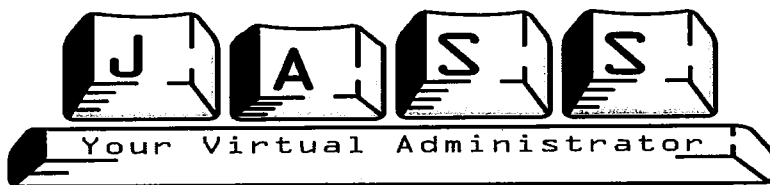
Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Truong, Kaitlen Nguyen (Kaitlin)	1.00	124.00	124.00
	Megow, Erik Robert	9.25	165.00	1,526.25
	Spector, Diane F	13.75	187.00	2,571.25
	Subtotal Professional Services	<u>24.00</u>		<u>4,221.50</u>

Invoice Number	1960089
Invoice Date	August 1, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Low Task Subtotal	General	4,221.50
Top Task Subtotal	Other Technical Services	4,221.50
Total Fees & Disbursements		23,845.50
INVOICE TOTAL (USD)		23,845.50

Due upon receipt or in accordance with terms of the contract



3235 Fernbrook Lane
Plymouth MN 55447

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

Aug 3 2022

Total by
Project Area

Administrative	0.50	65.00	32.50	
Administrative	71.550	70.00	5,008.50	
Admin - offsite	4.000	75.00	300.00	
Office Support	16.00	200.00	3,200.00	
Storage Unit - .47	1.00	169.67	169.67	
Data Processing/File Mgmt		65.00	0.00	
Drop Box Subscription			0.00	
Archiving			0.00	
Admin - Reimbursable Expense	561.31	1.00	561.31	9,271.980
Website			0.00	
Website	0.50	70.00	35.00	
Website - Zoom			0.00	
Website - Reimbursable Expense			0.00	
Web Domain, hosting			0.00	35.000
Project Reviews - Secre			0.00	
Project Reviews - Admin Specific	6.19	70.00	433.30	433.300 specific
Project Reviews - Admin	28.35	70.00	1,984.50	
Project Reviews - Admin offsite			0.00	
Project Reviews - Admin - File Mgmt			0.00	
Project Reviews - Reimbursable Expense	84.50	1.00	84.50	2,069.000 nonspecific
Plan Amendment - Secre			0.00	
Plan Amendment - Admin	2.25	70.00	157.50	
Plan Amendment - Offiste			0.00	
Plan amendment - reimbursable		1.00	0.00	157.500
Invoice Total				11,966.780

elm creek Watershed Management Commission

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

Hamel Townhomes Medina Project #2022-006

Project Overview:

Location: The project site is located northeast of the intersection between Hamel Rd. and Hunter Dr., in between Hamel Rd. and the railroad.

Purpose: The proposed project consists of constructing 30 townhome units with associate parking, utilities, landscaping, and recreational improvements. PIDs 1211823420015 and 1211823420016.

WMC Rules	X	Rule D	Stormwater Management
Triggered:	X	Rule E	Erosion and Sediment Control
		Rule F	Floodplain Alterations
		Rule G	Wetland Alteration
		Rule I	Buffer Strips

Applicant:	Edina Realty	Attention:	Josh Sanderson
Address:	1317 County Rd 19 Independence, MN	Phone:	949.439.8425
		Email:	joshsanderson@edinarealty.com

Agent:	Civil Site Group	Attention:	Robbie Latta
Address:	5000 Glenwood Ave. Golden Valley, MN	Phone:	952.250.2200
		Email:	rlatta@civilstiegroupp.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	February 4, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	February 4, 2022
	<input checked="" type="checkbox"/> City authorization: Dayton , MN	February 4, 2022
	<input checked="" type="checkbox"/> Review fee: \$3,375	February 23, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	February 4, 2022

Submittals

1. Elm Creek Watershed Management Commission Project Review Fee Schedule
2. Site Plans, prepared by Civil Site Group, dated February 4, 2022, revised July 11, 2022, revised July 27, 2022.
 - a. Sheet C0.0 of 29, Title Sheet
 - b. Sheet V1.0 of 29, Site Survey
 - c. Sheet C1.0 of 29, Removals Plan
 - d. Sheets C2.0 to C4.3 of 29, Site, Grading, Utility Plan

- e. Sheet C5.0 to C5.8 of 29, Civil Details
 - f. Sheet L1.0 to L1.1 of 29, Landscape Plan
 - g. Sheets SW1 to SW1.6 of 29, SWPPP
3. *Stormwater Management Plan*, prepared by Civil Site Group, dated February 3, 2022, revised July 11, 2022, Revised July 27
 - a. *Cover Sheet*
 - b. *Stormwater Narrative*
 - c. *Stormwater Calculations*
 - d. *Conclusions*
 - e. *Soil Boring Logs*
 - f. *HydroCAD Existing and Proposed Conditions*
 - g. *Drainage Calculations Summary Table*
 - h. *MIDS Printout*

Findings

General

1. A complete application was received February 23, 2022. Resubmittal was received July 11, 2022. The initial 60-day decision period per MN Statute 15.99 expired May 23, 2022. The applicant requested an extension, so the new expiration date is October 23, 2022.
2. The existing site consists of two parcels totaling 2.14 acres, located on the northeast corner of the intersection of Hamel Rd. and Hunter Dr. The site currently drains into the adjacent pond to the west.
3. The existing condition of the project site is mostly vacant land covered by grass and woody vegetation with a single-family home with associated driveway. The site current drains northwest to an existing stormwater pond. The existing impervious area is 0.22 acre.
4. The current project proposes grading 2.2 acres and constructing 30 townhome unites with associated parking, utilities, landscaping and recreational improvements. The proposed construction will create 1.54 acres of impervious area. The total impervious area post construction will be 1.76 acres.
5. A regional stormwater pond is adjacent to the site and was sized for the site, assuming the site would be no greater than 50% impervious surface.
6. A filtration basin is proposed on site to treat 85% of the site (92% of impervious surfaces) runoff before discharging into the existing pond. The rest of the runoff will be discharged into the pond directly.
7. The underground filtration basin is proposed to function as volume, water quality, and rate control for the site.
8. A jellyfish filter is proposed at an inlet sump to the filtration system to provide additional water quality treatment and pretreatment.
9. Soil borings show silty sand, silty clayey sand, and sandy lean clay as underlying soils throughout much of the site and beneath the proposed basin footprints, infiltration is not feasible.

Rule D – Stormwater Management (plans)

General

1. A regional stormwater pond is adjacent to the site and was sized for the site, assuming the site would be no greater than 50% impervious surface. Since the is greater than 50% impervious (82% impervious), the applicant needed to provide rate, volume, and water quality control on-site.

2. An underground filtration basin is proposed to treat the runoff from 85% of the site prior to draining into the existing pond. The filtration basin will be used for volume, water quality, and rate control.
1. A jellyfish filter is proposed at an inlet sump to the filtration system to provide additional water quality treatment and pretreatment. The Jellyfish filter is a stormwater mechanical treatment device (MTD) approved by the State of Washington Department of Ecology' TAPE program. The program has approved the MTD for TSS and Phosphorus treatment.
3. There is 0.22 acre of impervious area prior to construction. After construction, the total impervious area is 1.76 acres. New impervious area is 1.54 acres.
4. Soil borings indicate show silty sand, silty clayey sand, and sandy lean clay (CL and SC unified soil classifications) as underlying soils throughout much of the site and beneath the proposed basin footprints, infiltration is not feasible.
5. Stormwater management and controls will be provided by a filtration basin. The untreated runoff and the filtration basin will both drain to the adjacent pond to the west.

Rate Controls

1. Current rate control model **meets** Commission standards.
2. The applicant provided pre- and post-development HydroCAD model output for the 2-year, 10-year, and 100-year events which are summarized in Table 1.

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Leaving Site	Pre-Project	5.28	10.14	21.31
	Proposed	2.46	9.84	21.09
	Change	-2.82	-0.30	-0.22

Abstraction Controls and Water Quality

2. Abstraction and water quality controls **meet** Commission requirements.
3. The applicant proposes to provide abstraction control and water quality treatment by using a filtration basin on site. A sump will be used to pretreat the runoff before entering the basin.
4. The filtration media is sand based.
5. Net, new impervious areas will be 1.54 acres. This equates to 6,149 cubic feet of abstraction required for a 1.1' runoff event from the net new impervious areas.
6. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible due to low infiltration capacity soils. Soil borings completed by Haugo GeoTechnical Services on September 24, 2021, confirm the design assumptions relating to low infiltration capacity of native soils at the site.
7. The applicant used MIDS calculator. Results are summarized in Table 2.

Table 2 Water Quality Summary¹

	Annual Runoff Vol. (ac.-ft)	Abstraction Vol. (Cubic feet)	TP¹ (lbs/year)	TSS¹ (lbs/year)
Pre-Project (24.08 ac)	2.8	N/A	2.3	421
Proposed (w/o BMP's)	3.9	6,149 (required)	3.2	576
Proposed (w/ BMP's)	3.9	7,343 (provided)	2.3	387
Change	+1.1	+1,194 (excess)	0.0	-189

1. ECWMC Staff updated the MIDS to remove the Dissolved Phosphorus treatment of the jellyfish filter.

Operation and Maintenance

1. Unless Medina agrees to maintain the stormwater facilities on this site, a stormwater maintenance agreement with the city will be a condition of this approval.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans include a stormwater pollution prevention plan that is consistent with the MPCA and NPDES general permits.

Recommendation

Approval contingent upon:

- 1) The ECWMC escrow balance must be rectified to the satisfaction of the Commission Administrator.
- 2) Approval is contingent upon an operation and maintenance plan that is approved by the City of Medina.

On Behalf of Stantec Consulting Services, Inc.
Advisor to the Commission



Date 8/2/2022

Attachments

- Figure 1 Project Location
Figure 2 Existing Drainage Areas
Figure 3 Proposed Drainage Areas

Figure 1 Project Location

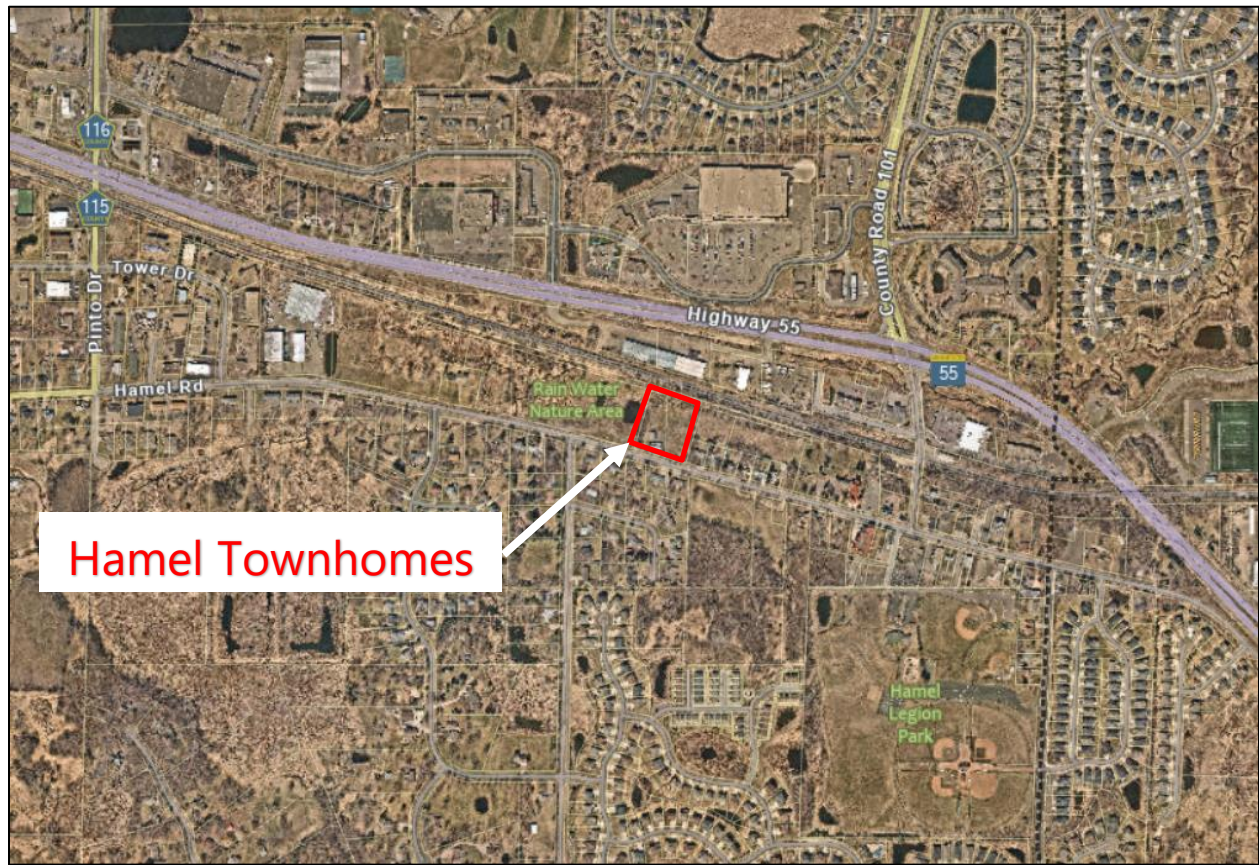


Figure 2 Existing Drainage

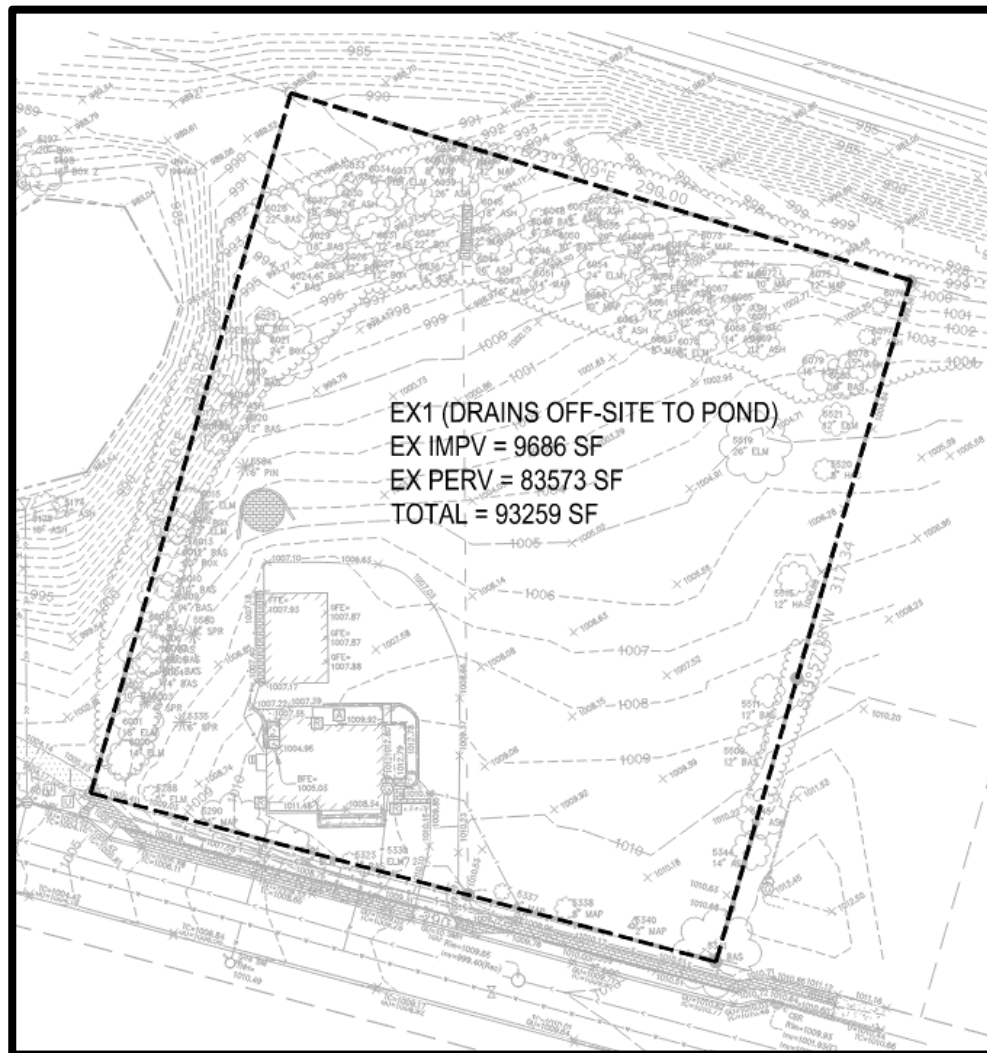
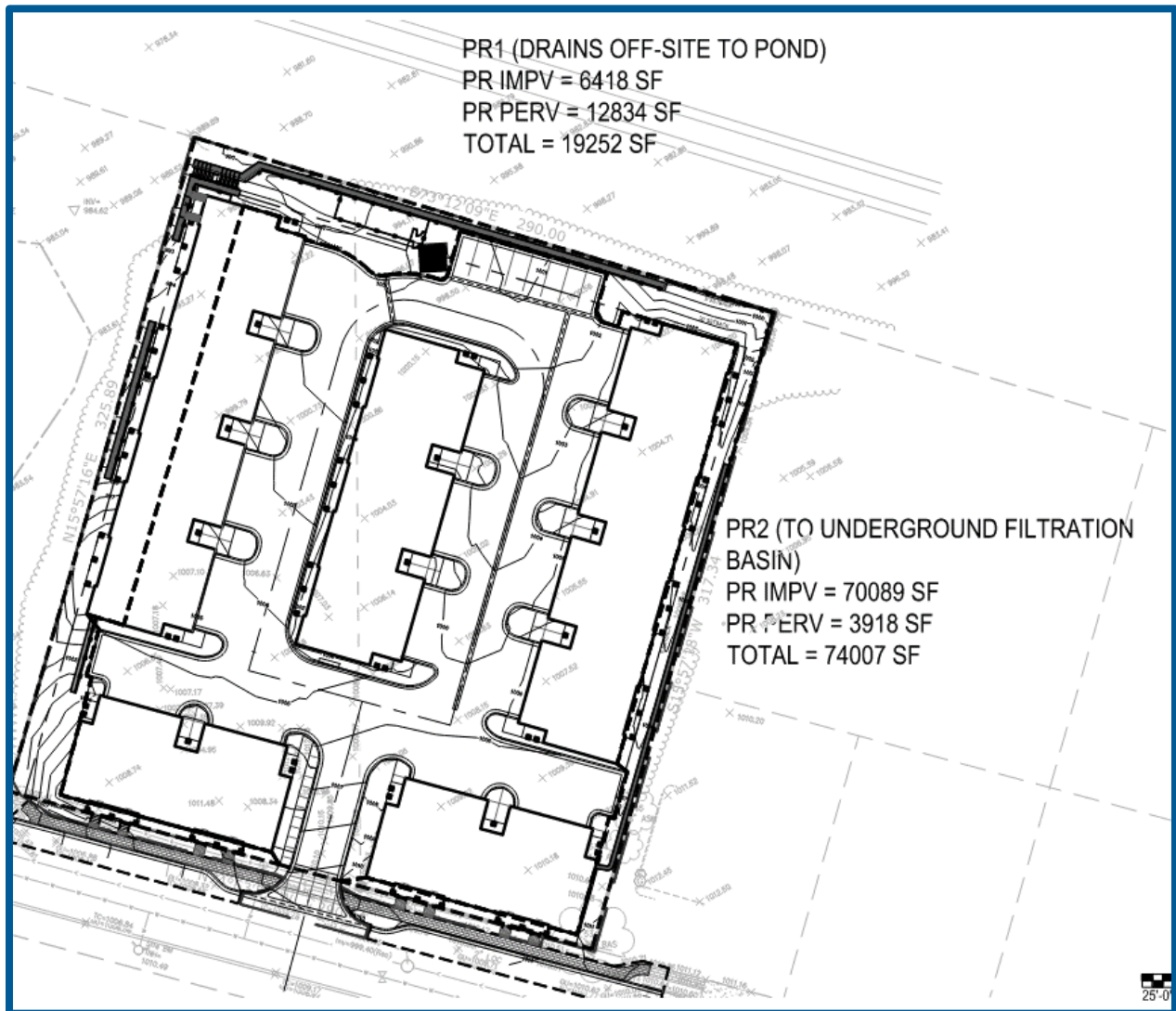


Figure 3 Proposed Drainage



Garages Too Corcoran

Corcoran Project #2022-030

Project Overview:

Location: The project site is located on two urban reserve zoning parcels. Hennepin County PID's 3211923440009 & 3211923440001. The primary parcel has access from Highway 55 and will be used for the storage facility. The secondary parcel is a home site and will remain as such but with drainage and utility easements and modifications to the property for a stormwater basin and its outlet. This parcel is located on Horseshoe Bend Drive, north of Hwy 55 near Rolling Hills Road.

Purpose: The proposed project will construct four self-storage buildings and its associated access drive, small and large utilities, and a stormwater basin. The site is two parcels, 5.04 and 1.67 acres. It will be subdivided into two parcels, 4.59 and 2.12 acres in size. Project work will disturb 5.6 acres and create 2.84 acres of new impervious areas.

WMC Rules Triggered:

X	Rule D	Stormwater Management
X	Rule E	Erosion and Sediment Control
	Rule F	Floodplain Alterations
X	Rule G	Wetland Alteration
X	Rule I	Buffer Strips

Applicant: Garages Too, LLC Address: 305 Lakeview Ave Tonka Bay, MN 55331	Attention: Craig Scherber Phone: 612.810.8400 Email:
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Agent: Civil Engineering Site Design. Address: P.O. Box 566 Monticello, MN 55362	Attention: Scott Dahlke Phone: 763.314.0929 Email: sdahlke@civilesd.com
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Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	May 31, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	April 11, 2022
	<input checked="" type="checkbox"/> City authorization: Corcoran, MN	May 23, 2022
	<input checked="" type="checkbox"/> Review fee: \$4050.00	May 31 and August 1, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	May 23, 2022

Submittals

1. *Elm Creek Watershed Management Commission request for Plan Review and Approval, Project Review Fee Schedule and fee received May 31, 2022.*
2. Site Plans, prepared by Civil Engineering Site Design., dated June 20, 2022, with last revision date of July 26, 2022. .
 - a. Sheet C0, Project Location Plan
 - b. Sheet C1, Site Plan & Preliminary Plat
 - c. Sheets C2.1-C2.2, Grading and Drainage Plan
 - d. Sheets C3.1-C3.3, Storm Sewer Plan
 - e. Sheet C4, Private Drive
 - f. Sheets C5.1-C5.2, SWPPP
 - g. Sheets C6.1-C6.2, Existing Conditions and Removal Plan
 - h. Sheets C7.1-C7.2, Details
 - i. Sheet C8, Landscape Plan
3. *Garages Too Corcoran Drainage Analysis*, prepared by Civil Engineering Site Design., dated April 20, 2021, with last revision date of July 26, 2022.
 - a. *Stormwater narrative*
 - b. *Existing and Proposed Conditions Analysis*
 - i. *Drainage area maps*
 - ii. *2, 10, & 100-year rainfall Event HydroCAD Calculations*
 - c. *Soils Data per NRCS Web Soil Survey.*
 - d. *Filtration Worksheet,*
 - e. *MIDS Calculation dated July 7, 2022.*
4. *ECWMC staff MIDS calculations dated July 8, 2022.*
5. *MN Wetland conservation Act Notice of Application for wetland boundary/type decision from the City of Corcoran dated July 16, 2021*
 - a. *Wetland Delineation Report for Parcels 3211923440001 and 3211923440009 by AG Wetland Services Inc dated July 8, 2021*
 - b. *LGU review summary by Wenck/Stantec dated July 13, 2021.*
 - c. *LGU notice of decision, Boundary/Type, dated August 11, 2021.*
6. *Soil boring location map and test pit log by Haugo GeoTechnical Services dated June 22, 2022.*

Findings

General

1. A complete application was received May 31, 2022. The initial 60-day decision period per MN Statute 15.99 was extended by ECWMC staff to September 28, 2022.
2. The two parcels are 6.17 acres in size, located north of Hwy. 55 and south of Horseshoe Bend Drive directly west of Rolling Hills Road.
3. The parcel is in the Elm Creek legal boundary but in the hydrologic boundary of Peter Lake watershed of the Pioneer-Sarah Creek Watershed. The water makes its way to Peter Lake by flowing north and east and then south through a series of wetlands and drainageways before flowing under Highway 55 into Peter Lake.
4. The existing conditions for this project site consist mostly of grass/hay land with one single family home and one farmstead.

5. The current project proposes grading 5.6 acres and construct four storage garage buildings and their associated driveways and infrastructure and storm water basin plus an upgrade to the private access driveway from Highway 55 and constructing an associated detention basin for said upgrade.
6. One biofiltration basin is proposed to function as volume, water quality, and rate control for main building site. A detention basin will be constructed for rate control along the driveway access from Highway 55.
7. NRCS Web Soil Survey shows a combination of loam and clay loam soils that are in the C/D soil hydrologic group. C/D hydrologic soil groups are described as having a slow rate of infiltration rate when thoroughly wet. Water movement through these soils is moderate or moderately slow and they generally have a restrictive layer that impedes the downward movement of water.
8. Soil borings by Haugo GeoTechnical Services describe the soil materials as CL Sandy Lean Clay's in the vicinity of the stormwater basin.
9. Plan updates of July 26, 2022, include wetland boundaries, wetland buffers and pond 1P outlet realignment to avoid wetland impacts
 - a. De minimis request for 259 sq. ft. of wetland impacts at flared end section discharge point.

Rule D – Stormwater Management

General

1. There are two main points of discharge from this project
 - a. Northeast discharge. About 10.4 acres flows to the NE corner of this site before flowing to the east under Rolling Hills Road and then through a series of wetlands and drainageways to the south where it enters Peter Lake.
 - b. Southeast discharge. About 13.7 acres flow into the Hwy 55 ROW ditch at the SE corner of the access driveway on Highway 55. This water flows off site to the east along Hwy 55 before going under the road into Peter Lake.
2. Per the HydroCAD analysis the watershed area before development has 3.45 acres of impervious areas and after development 6.29 acres of impervious areas. A difference of 2.84 acres. Disconnected flows from the Highway 55 access driveway will provide an additional credit of 0.27 acres off the impervious areas.
3. To compare the runoff flow rates from the past 10 years of land use for the existing conditions, the applicant utilized a weighted average for the areas of grass and hard surfaces over 24.1 acres that drain through this site. Post development conditions were averaged the same but with the increase in impervious areas from the proposed project.
4. Based on the soil boring information, infiltration rates are too slow (<0.2"/hour) for infiltration to be feasible as a BMP for stormwater controls on this site.
5. Stormwater management will be provided by one filter basin with a pre-treatment forebay for water quality, rate, and volume (abstraction) controls and one detention basin along the access road from Highway 55 for rate controls.

Low Floor Elevations

1. Low Floor Elevations **meet** the Commissions requirements
2. Proposed low floor elevations for the storage buildings range from 1047.5 to 1043.7.
 - a. Adjacent ponding basin 1P has a HWL of 1035.6 and an overflow of 1036.2.

Operation and Maintenance

1. An operation and maintenance agreement approved by the city that implement conditions that bind current and future owners of the project shall be recorded on this property.

Rate Controls

1. Rate controls meet the Commission's requirements.
2. The applicant provided pre- and post-development HydroCAD model output for the 2-year, 10-year, and 100-year events which are summarized in Table 1.

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Drainage to Northeast (Driveway culvert)	Pre-Project (10.4 acres)	13.7	28.8	66.2
	Proposed (10.4 acres)	13.0	22.4	48.8
	Change (0 acres)	-0.7	-6.4	-17.4
Drainage to Southeast (Highway 55 ROW)	Pre-Project (13.7 acres)	18.2	36.3	80.8
	Proposed (13.7 acres)	17.9	35.5	78.0
	Change (0 acres)	-0.3	-0.8	-2.8
Project Total	Pre-Project (24.1 acres)	31.5	64.2	145.1
	Proposed (23.9 acres)	30.3	56.6	126.5.
	Change (0 acres.)	-1.2	-7.6	-18.6

Abstraction Controls and Water Quality

Abstraction and water quality controls meet the Commissions requirements.

1. The applicant proposes to provide abstraction control and water quality treatment by using one stormwater filtration basins with a pre-treatment forebay and claiming a 0.27-acre disconnection credit for the access driveway from Highway 55.
2. New impervious areas will be 2.84 acres. With a disconnected credit of 0.27 acres for the access driveway from Highway 55, there will be 2.57 acres requiring 10,262 cubic feet of abstraction.
3. Based on soil borings and NRCS soils information, full infiltration of 1.1 inches of runoff from impervious areas is not feasible due to low infiltration capacity soils.
4. The one filtration basin and forebay is sized to filter 14,693 cubic feet of stormwater through its underdrain system prior to discharge of water through its primary outlet structure. Basin 1P will drain down in approximately 47 hours at 0.8"/hour filter rate.

5. The applicant used the MIDS model, to demonstrate water quality compliance for the project.
 - a. One biofiltration basin was analyzed as a BMP,
 - b. Version 4 of the MIDS model with 7.6% bypass.
 - c. A 0.27 acres disconnection credit in the watershed.
6. Table 2 shows the water quality modeling results based on the proposed biofilter basin and 2.57 acres of net, new impervious areas requiring abstraction.

Table 2 Abstraction Control and Water Quality Criteria Summary

	Annual Runoff Vol. (ac.-ft)	Abstraction Vol. (Cubic feet)	TP¹ (lbs/year)	TSS¹ (lbs/year)
Pre-Project (24.08 ac)	18.6	N/A	15.2	2,757
Proposed (w/o BMP's)	22.6	10,262 (required)	18.4	3,345
Proposed (w/ BMP's)	22.6	14,693 (provided)	15.2	2,519
Change	+4.0	+4,431 (excess)	0.0	-238

¹ MIDS analysis completed 24.08 acres pre- and post-development.

Rule E – Erosion and Sediment Control

1. Plans meet Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans include a stormwater pollution prevention plan that is consistent with the MPCA and NPDES general permits.
 - a. Sequencing of erosion control measures, temporary drainage systems, temporary sediment basins and filter basins have been provided as part of the SWPPP plan for this site. Other BMPS that are included are:
 - i. Rock construction entrance
 - ii. Silt fence and Bio-rolls
 - iii. Double (redundant) silt fence adjacent to delineated wetland boundaries
 - iv. Inlet protection
 - v. Stabilization of disturbed soil areas.
 - vi. Appropriate concrete washout provisions.

Rules I and G – Wetland Alteration and Buffer Strips

1. Wetland and buffer strip areas were provided on the site plans dated July 26, 2022.
2. Wetland buffer strips will meet the Commission's requirements.
 - a. Buffer widths are 25 feet
 - b. Monumentation is provided as required
 - c. Restoration of disturbed areas is adequate.
3. Wetlands are avoided except for 259 square feet of impacts at the flared end section of the outlet pipe to Basin 1 near the Horseshoe Bend Drive. A de minimis exemption is requested for this impact.
 - a. De minimis impacts must meet the requirement of the LGU (Corcoran).

Recommendation

Approval contingent upon:

- 1) Wetland impacts/exemption request must meet the LGU (Corcoran) requirements.
- 2) An operation and maintenance agreement approved by the city that implement conditions that bind current and future owners of the project shall be recorded on this property.
- 3) The ECWMC escrow balance must be rectified to the satisfaction of the Commission Administrator.



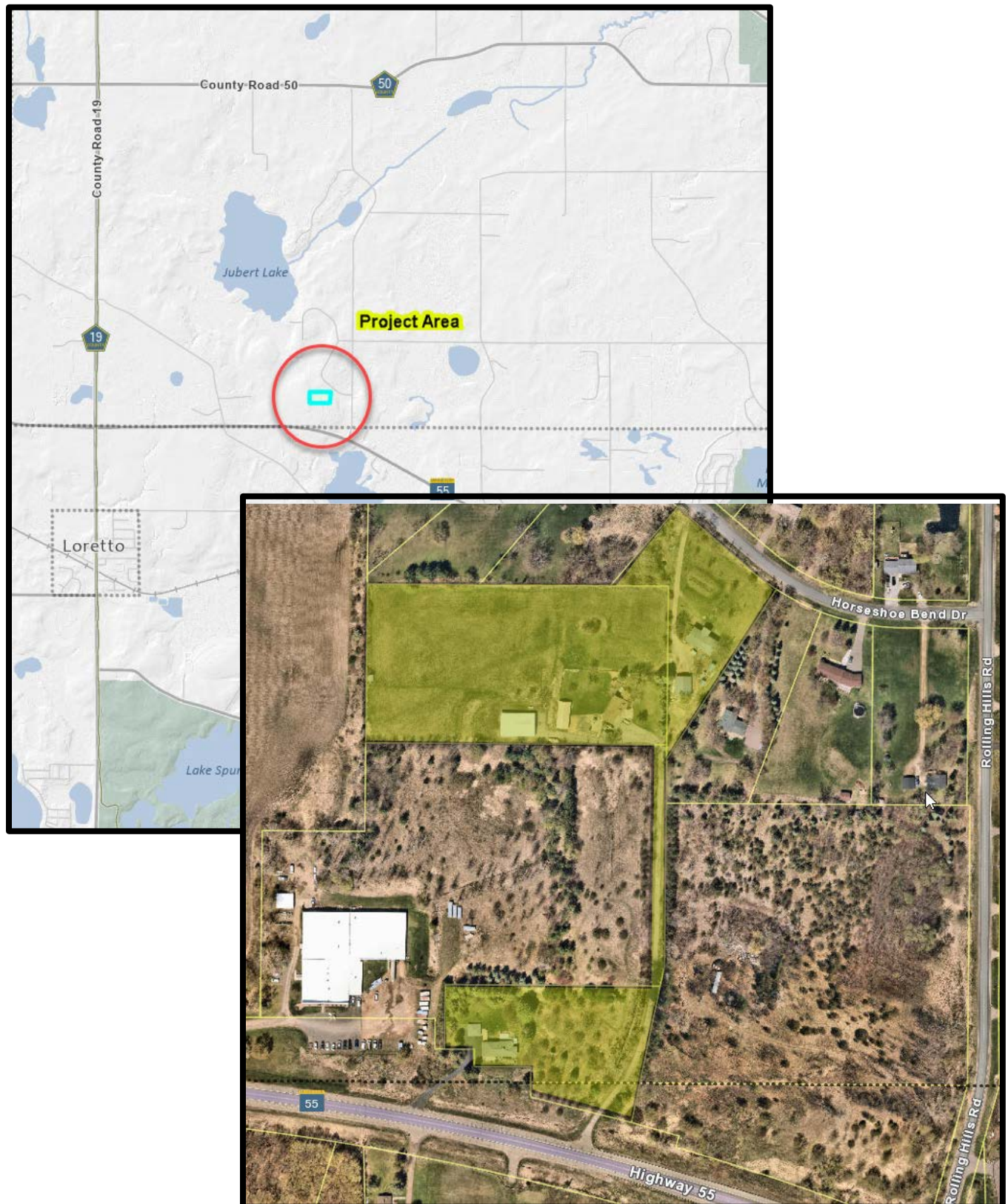
James C. Kujawa
Surface Water Solutions
Advisor to the Commission

August 3, 2022
Date

Attachments

- | | |
|----------|--|
| Figure 1 | Project Location |
| Figure 2 | Storage Area Grading and Layout |
| Figure 3 | Site Plan, North Match |
| Figure 4 | Site Plan Access Drive from Highway 55 |
| Figure 5 | Pre- and Post-Development Drainages |

Figure 1 Project Location



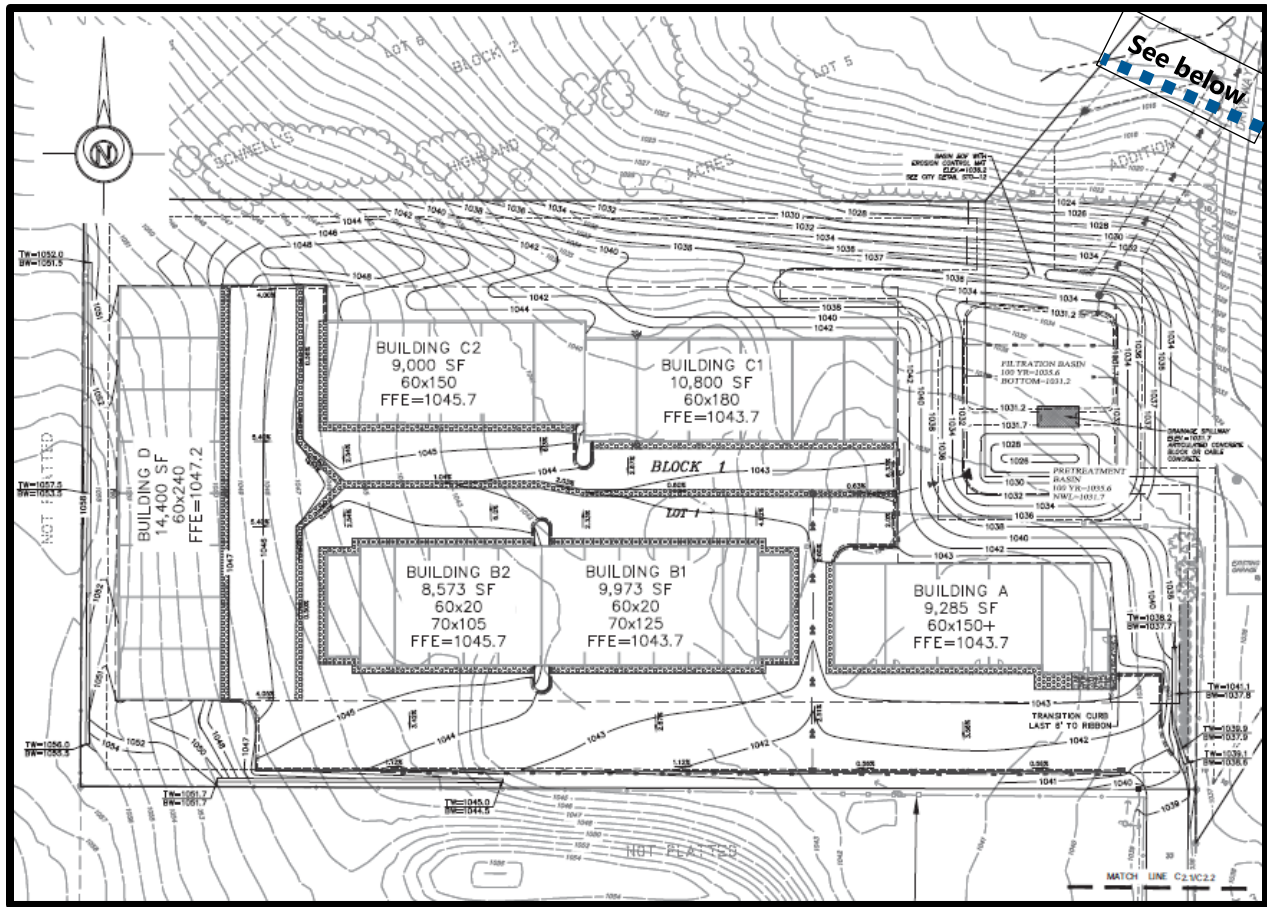


Figure 2 Storage Area Layout

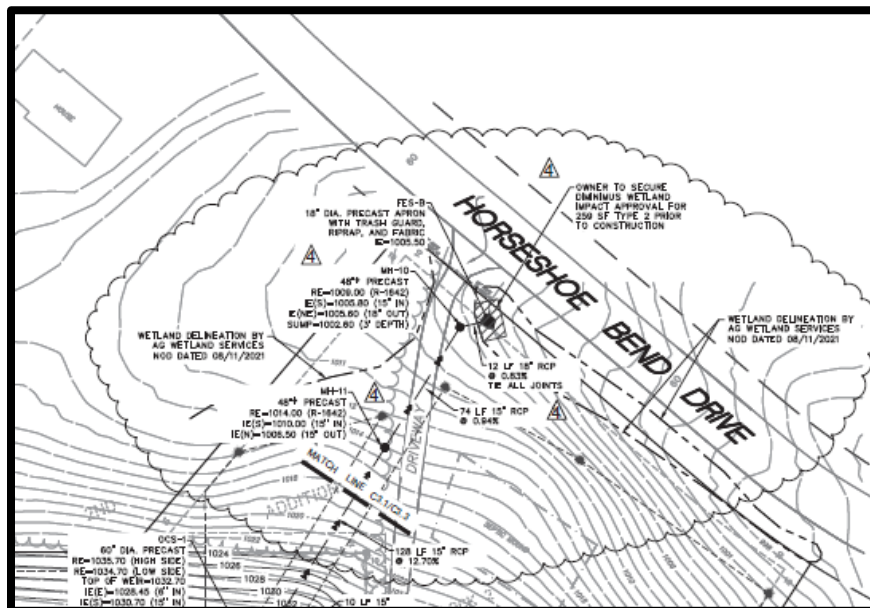


Figure 3 Site plan North match

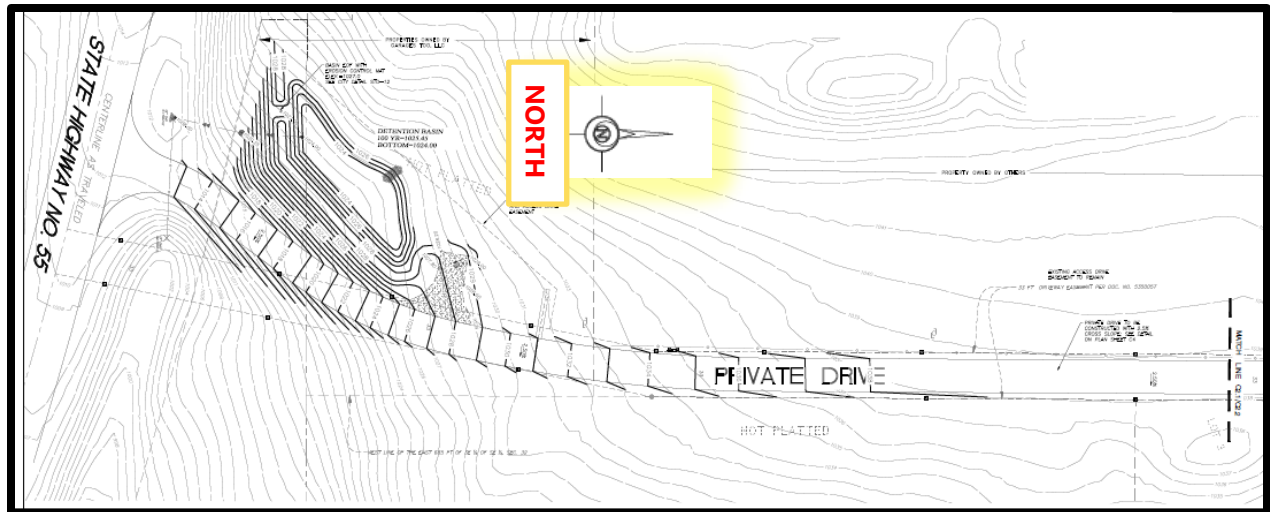
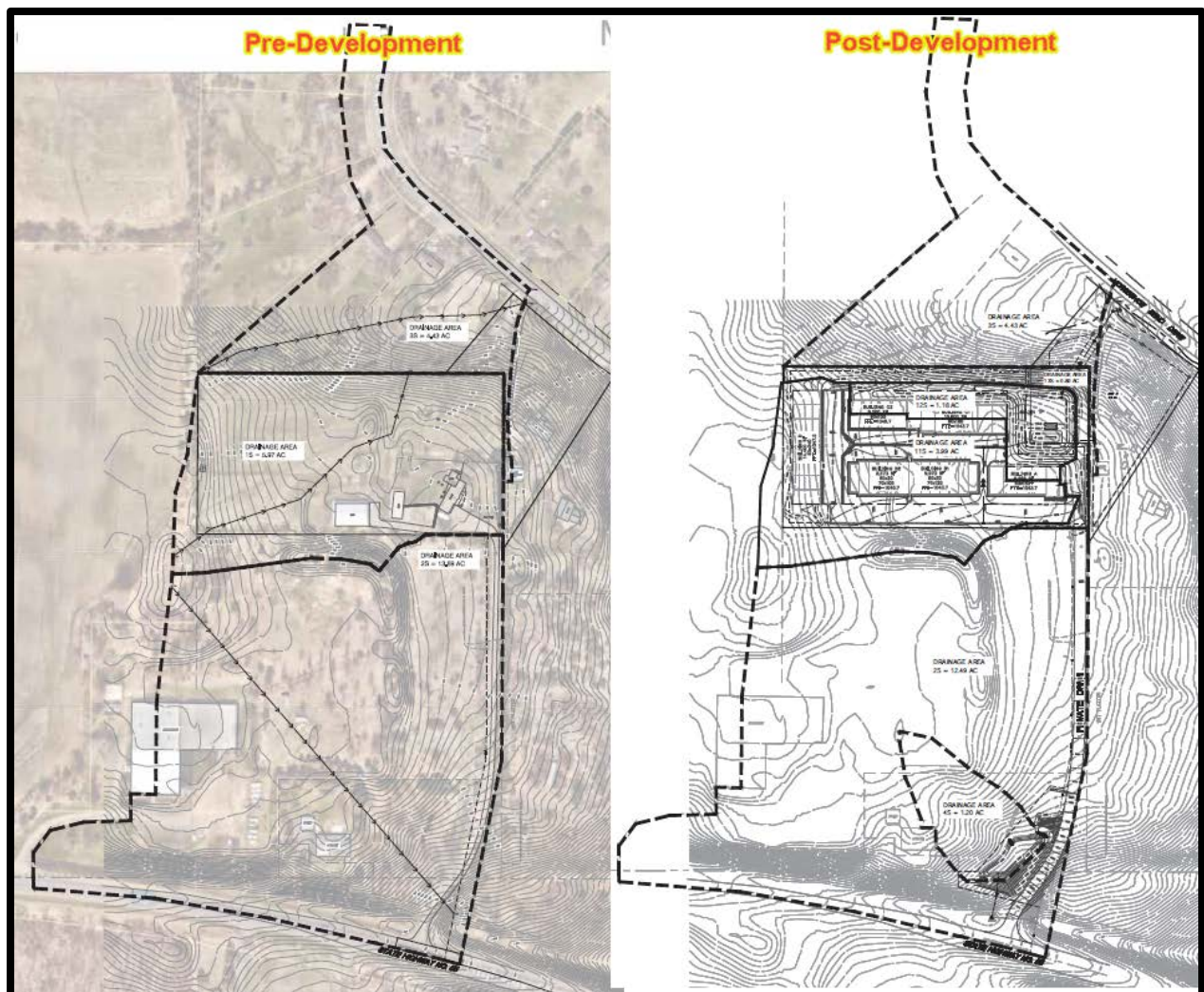


Figure 4 Site Plan Access Drive from Highway 55

Figure 5 Pre and Post Development Drainage



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CSAH 101 Improvements Maple Grove Project #2022-034

Project Overview:

Location: Maple Grove, MN on CSAH 101 between Walnut Grove Way/73rd Avenue to approximately 83rd Avenue.

Purpose: Reconstruction of CSAH 101 to include turn lanes, conversion of rural to urban section, intersection improvements, and addition of a multi-use trail.

WMC Rules Triggered:

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

Applicant:	City of Maple Grove	Attention:	Derek Asche
Address:	12800 Arbor Lakes Pkwy N, Maple Grove, MN, 55369	Phone:	(763)494-6354
		Email:	dasche@maplegrovmn.gov
Agent:	WSB	Attention:	Jake Newhall
Address:	701 Xenia Ave S Suite 300, Golden Valley, MN, 55416	Phone:	(763)231-4861
		Email:	jnewhall@wsbeng.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	June 16, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	June 16, 2022
	<input checked="" type="checkbox"/> City authorization: Maple Grove, MN	June 9, 2022
	<input checked="" type="checkbox"/> Review fee: \$3,375	June 16, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	June 16, 2022

Submittals

1. Stormwater Narrative, dated June 8, 2022, prepared by WSB, revised July 8, 2022, July 19, 2022
 - a. Stormwater Narrative
 - b. Existing and Proposed Drainage Maps
 - c. Existing and Proposed HydroCAD models
 - d. Existing and Proposed Conditions P8 water quality model
 - e. Geotechnical Evaluation Report, dated November 2, 2021, prepared by WSB, revised June 2, 2022
 - f. The Woods Pond Feasibility Report, dated March 27, 2017, prepared by WSB

2. Construction Drawings, dated June 7, 2022, prepared by WSB

Findings

General

1. A complete application was received June 16, 2022. The initial 60-day decision period per MN Statute 15.99 expires August 15, 2022.
2. The existing 12.80-acre parcels contains 6.85-acres of impervious surfaces as a rural two-lane paved road. The site currently drains to ditches on both sides of the roadway, conveying stormwater through these ditches and culverts to one of eight discharge points.
3. The proposed reconstruction includes turn lanes, conversion of rural to urban section, intersection improvements, and addition of a multi-use trail with a disturbance of 12.80-acres.
4. The proposed development will create 9.12-acres of impervious area, 2.28-acres of which is net, new impervious.
5. An existing pond, Woods Pond, will be used to meet the water quality and abstraction requirements.
6. Soil borings indicate lean clay, silty clay, and sandy clay as underlying soils throughout the site.
7. There are no Elm Creek Watershed jurisdictional floodplains or stream crossings within the site.

Rule D – Stormwater Management

General

1. The project will disturb the entire 12.80-acres site. The impervious area will be 9.12-acres, 2.28-acres of which is net, new impervious.
2. Soil boring logs indicate lean clay, silty clay, and sandy clay.
3. These underlying soils are predominantly Hydrologic Soil Group Type D (very low infiltration capacity). No groundwater was encountered during boring.
4. An existing pond, Woods Pond, will be used to provide abstraction controls, water quality, and rate control.

Low Floor Elevations

1. The modeled 100-year stage of the proposed pond is 975.7-feet with EOFs of 976.0-feet, and a proposed low basement floor of 978.0-feet. **This meets the Commission standards** for two feet of freeboard and that the low floor shall be at least one foot above the EOF.

Rate Controls

1. Rate control **meets** Commission requirements.
2. Rate control for the site was provided by the Woods Pond for the majority of the new impervious in the corridor.
3. The biofiltration basin was sized to draw down within 48 hours.
4. Small increases to the 78th Avenue storm sewer system were approved by the City of Maple Grove.

- The applicant provided an existing and proposed HydroCAD model output for the 2-year, 10-year, and 100-year events total outflow from each drainage point from the site. The rates are summarized in the table below:

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Wetland 1	Pre-Project	6.8	15.6	54.3
	Proposed	6.8	12.6	47.7
	Change	-0.0	-3.0	-6.6
Wetland 2	Pre-Project	1.3	2.6	5.6
	Proposed	0.6	1.3	2.9
	Change	-0.7	-1.3	-2.7
75th PI	Pre-Project	1.4	2.5	5.0
	Proposed	0.5	0.8	1.5
	Change	-0.9	-1.7	-3.5
Golf Course Swale	Pre-Project	8.5	13.4	20.5
	Proposed	6.1	10.6	18.5
	Change	-2.4	-2.8	-2.0
78th Ave	Pre-Project	1.6	2.9	5.8
	Proposed	2.5	3.9	6.9
	Change	+0.9	+1.0	+1.1
To NW Wetland	Pre-Project	1.8	2.4	3.1
	Proposed	2.1	2.9	3.9
	Change	+0.3	+0.5	+0.8
Total	Pre-Project	21.4	39.4	94.3
	Proposed	18.6	32.1	81.4
	Change	-2.8	-7.3	-12.9

Abstraction Controls and Water Quality

- Abstraction controls **meet** Commission requirements.
- Net, new impervious areas will be 2.277-acres from the site, requiring abstraction of 9,092 cubic feet.

3. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible due to the very low infiltration capacity soils.
4. The volume requirements were provided by an existing biofiltration bench at Woods Pond, which the impervious was not previously routed to.
5. Water quality **meet** Commission requirements.
6. The applicant proposes to use an existing biofiltration bench at Woods Pond to meet water quality requirements.
7. The applicant used P8 models to simulate pollutant removal by the biofiltration bench.

Table 3 Water Quality Summary¹

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	655.2	N/A	28.1	2,923.1
Proposed	695.5	9,092 (required) 12,498 (provided)	28.1	2,521.6
Change	+40.3	3,406 (excess)	-0.0	-401.5

¹The ECWMC technical staff reviewed the P8 Model and found that the proposed P25% filtration efficiency was incorrect. The values shown in this table reflect accurate filtration efficiencies from ECWMC Staff modeling.

Operation and Maintenance

The city of Maple Grove has agreed to assume responsibility of operation and maintenance of the proposed stormwater treatment facilities.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices, including:
 - a. Rock construction entrance
 - b. Silt fence
 - c. Catch basin inlet protection
 - d. Bioroll
 - e. Stabilization of disturbed soil areas

Recommendation

Conditional Approval

Conditions for Approval

1. Approval is contingent upon final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met.

On Behalf of Stantec Consulting Services, Inc.
Advisor to the Commission

A handwritten signature in black ink, appearing to read "E.R. Ny", is written over a light gray rectangular background.

8/2/2022
Date

Attachments

- | | |
|----------|-------------------------------|
| Figure 1 | Project Location |
| Figure 2 | Existing Drainage Map |
| Figure 3 | Proposed Drainage Plan |
| Figure 4 | Erosion and Sediment Controls |

Figure 1 Project Location

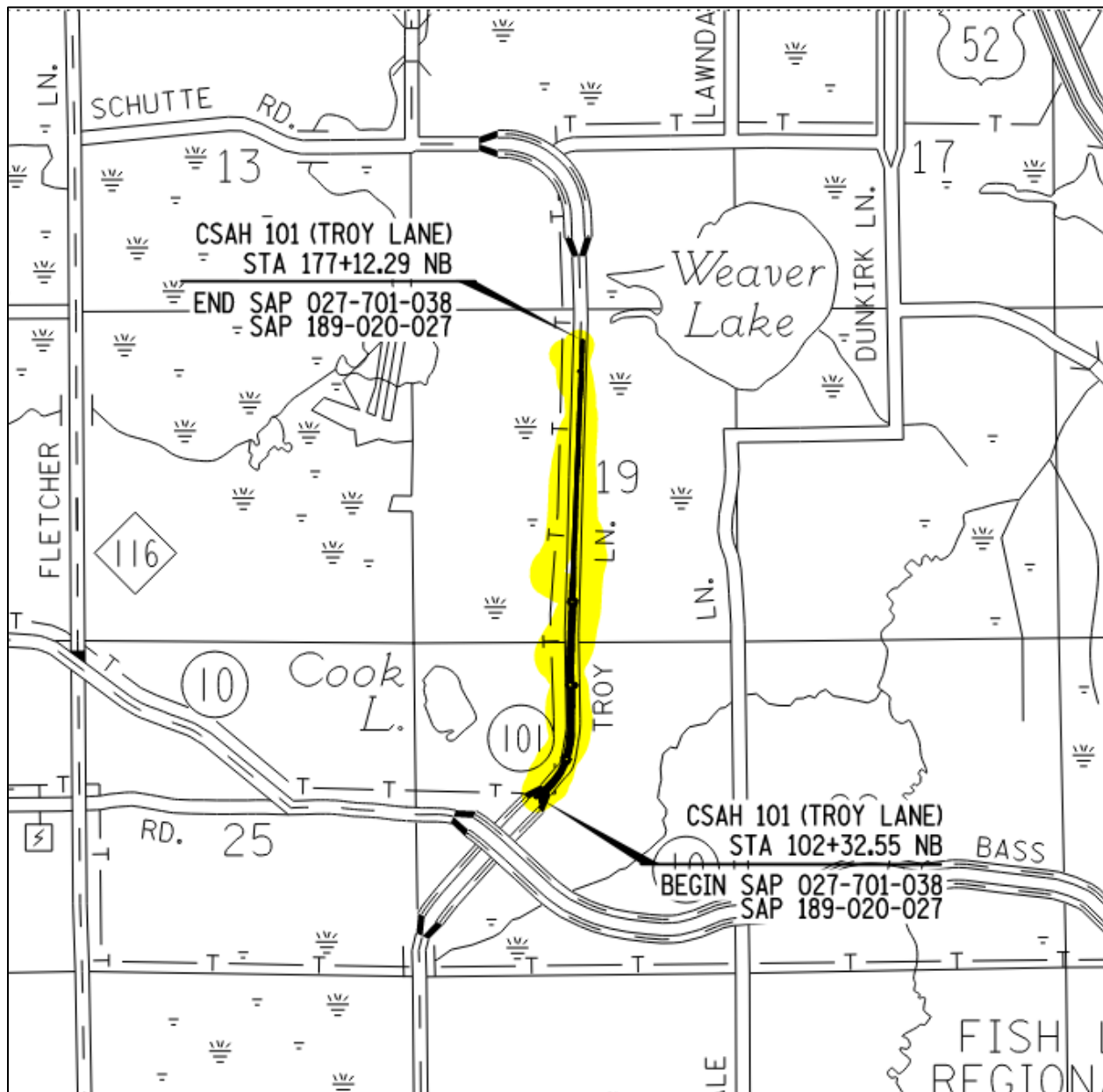


Figure 2 Existing Drainage Map



Figure 3 Proposed Drainage Plan

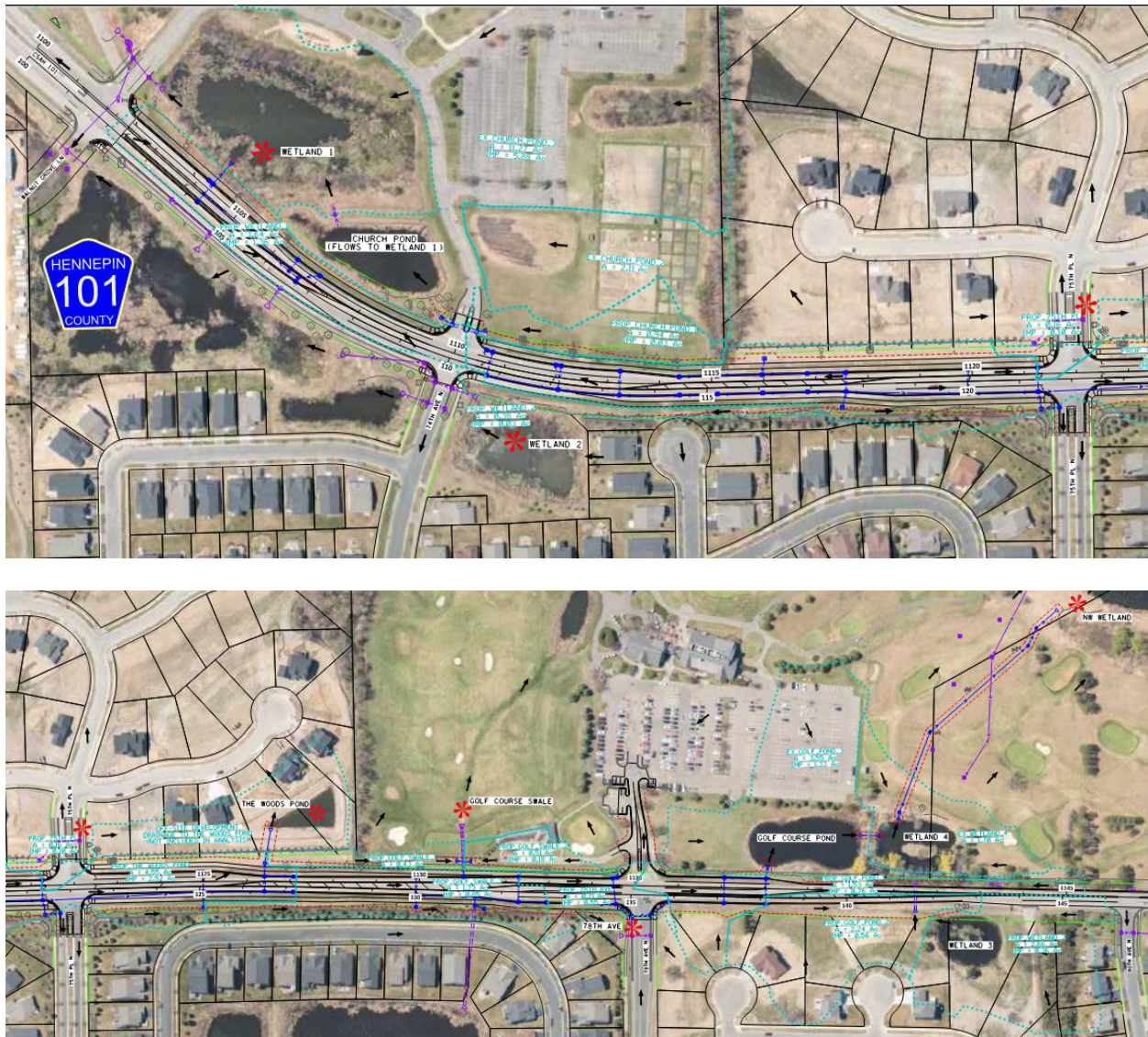
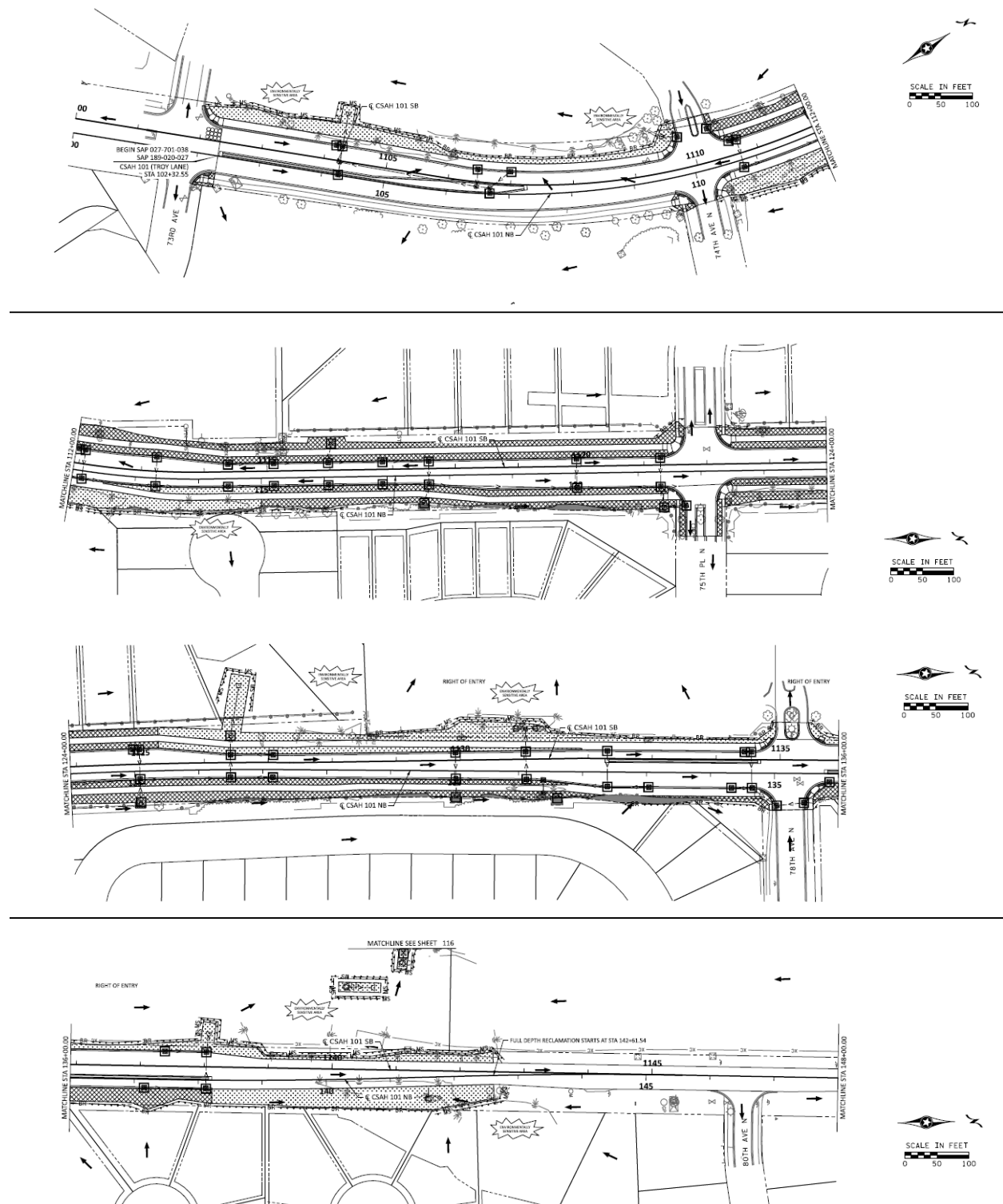
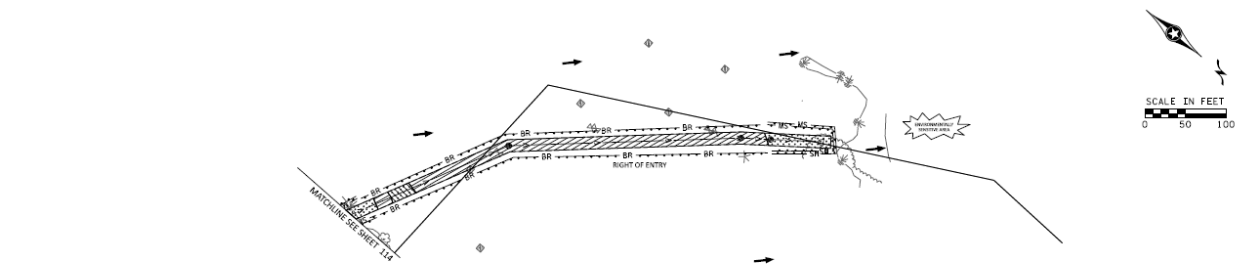
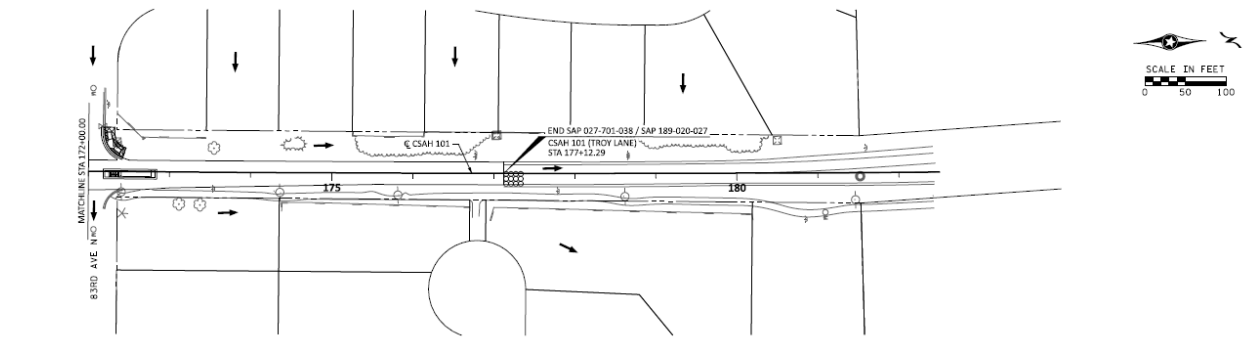
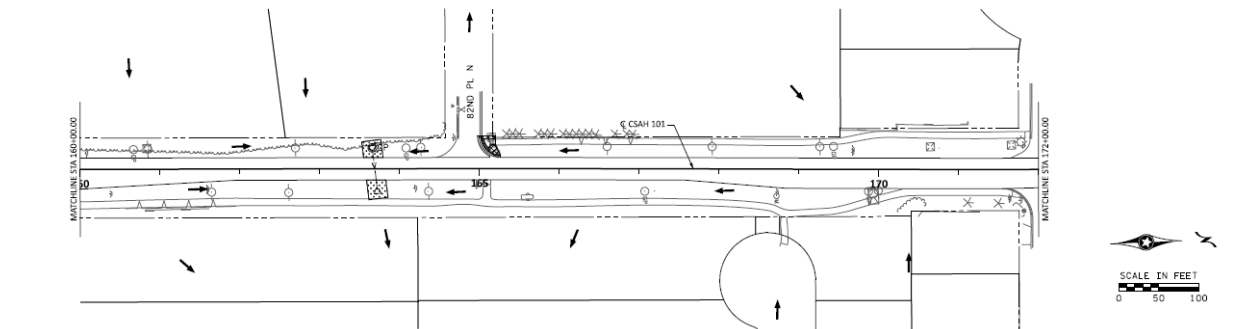
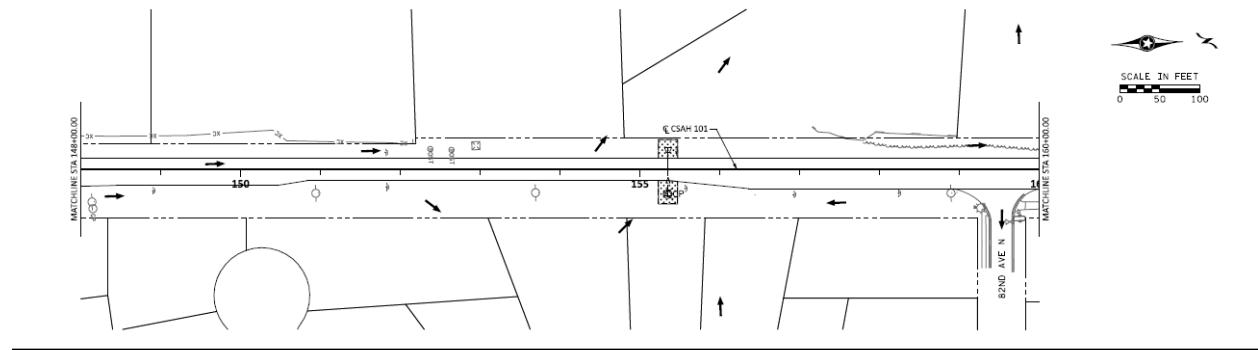


Figure 4 Erosion and Sediment Controls





elm creek Watershed Management Commission

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CSAH 13, CR 203 Culvert Replacement Rogers Project #2022-037

Project Overview:

Location: Rogers, MN on CSAH 13, CR 203, and CSAH 19.
Purpose: Replacement of 6 culverts with no change to elevations or pipe size/type.
WMC Rules Rule D Stormwater Management
Triggered: X Rule E Erosion and Sediment Control
Rule F Floodplain Alterations
Rule G Wetland Alteration
Rule H Bridge and Culvert Crossings
Rule I Buffer Strips

Applicant: Hennepin County

Address: 1600 Prairie Dr
Medina, MN 55340

Attention: Justin Belisle

Phone: (612)282-8180

Email: justin.belisle@hennepin.us

Agent: Hennepin County

Address: 1600 Prairie Dr
Medina, MN 55340

Attention: Justin Belisle

Phone: (612)282-8180

Email: justin.belisle@hennepin.us

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	July 5, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	July 5, 2022
	<input checked="" type="checkbox"/> City authorization: Maple Grove, MN	June 27, 2022
	<input checked="" type="checkbox"/> Review fee: \$675	July 5, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	July 5, 2022

Submittals

1. Construction Drawings, dated June 22, 2022, prepared by Hennepin County

Findings

General

1. A complete application was received July 5, 2022. The initial 60-day decision period per MN Statute 15.99 expires September 3, 2022.
2. 6 existing culverts will be removed and replaced. There is no change in the elevation, materials, or pipe sizes. All culvert crossings occur in the City of Rogers along CSAH 13, CR 203 and CSAH 19.

- a. Culvert 1 is a 30" x 64' RCP and is located on CSAH 13 north of 133rd Ave N and south of Harmony Ave. The culvert connects an unnamed DNR Public Water with Grass Lake, another DNR Public Water.
 - b. Culvert 2 is a 30" x 96' RCP and is located on CSAH 13 just north of 141st Ave N. This culvert is not located on DNR Public Water.
 - c. Culvert 3 is a 60" x 85.5' CMP and is located on CR 203 just south of the east/west portion of Crow Hassan Park Rd. This culvert is not located on DNR Public Water.
 - d. Culverts 4 and 5 are both located on CR 203 north of Ghostley Rd and South of Sylvan Lake Rd. Culvert 4 is a 24" x 62.6' CMP and culvert 5 is a 15" x 64' CMP. These culverts are not located on DNR Public Water.
 - e. Culvert 6 is a 60" x 32' CMP and is located along the city border of Rodger's and Hanover just east of Whitetail Dr N. This culvert is not located on DNR Public Water
3. The proposed replacements do not alter impervious area.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices, including:
 - a. Erosion control blanket
 - b. Silt curtain
 - c. Catch basin inlet protection
 - d. Bioroll
 - e. Stabilization of disturbed soil areas

Recommendation

Approved

On Behalf of Stantec Consulting Services, Inc.
Advisor to the Commission



8/2/2022

Date

Attachments

- Figure 1 Project Location
- Figure 2 Culvert 1
- Figure 3 Culvert 2
- Figure 4 Culvert 3
- Figure 5 Culvert 4
- Figure 6 Culvert 5
- Figure 7 Culvert 6

Figure 1 Project Location

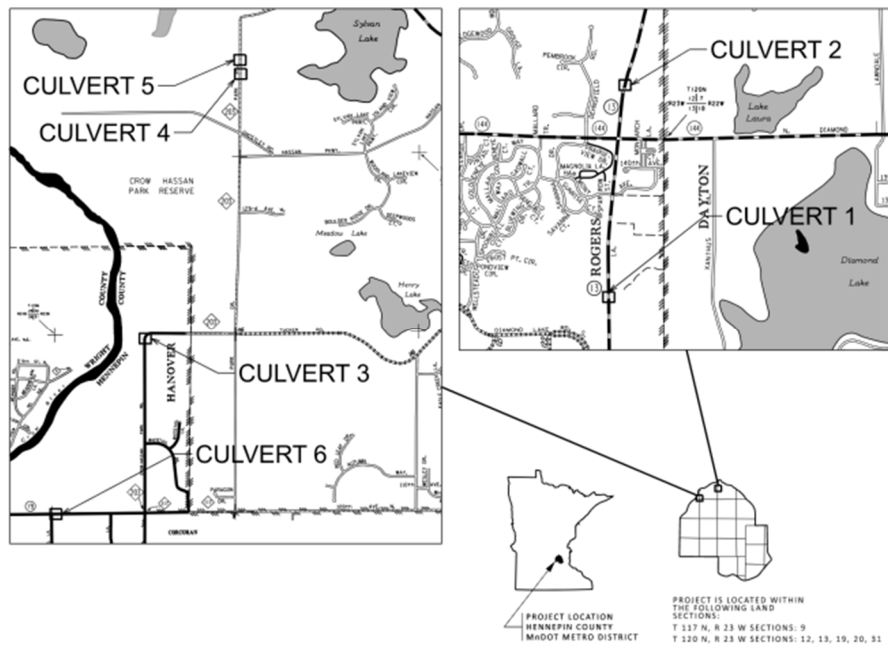


Figure 2 Culvert 1

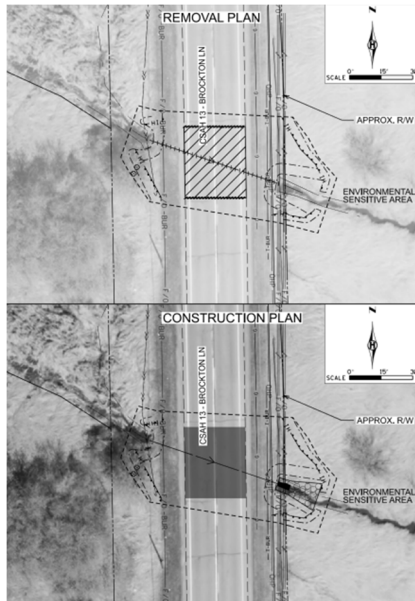


Figure 3 Culvert 2

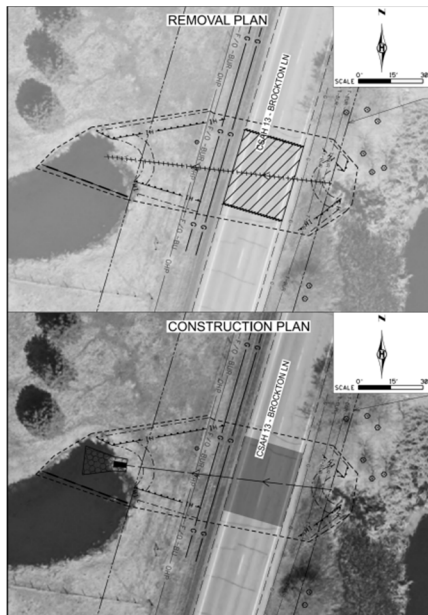


Figure 4 Culvert 3

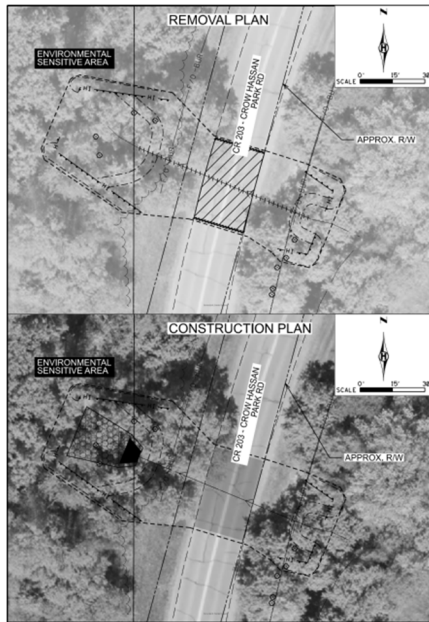


Figure 5 Culvert 4

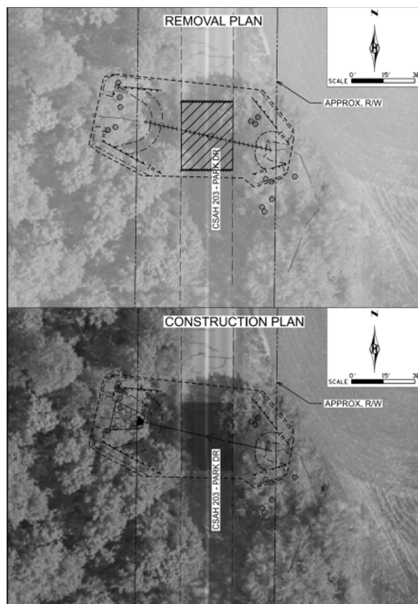


Figure 6 Culvert 5

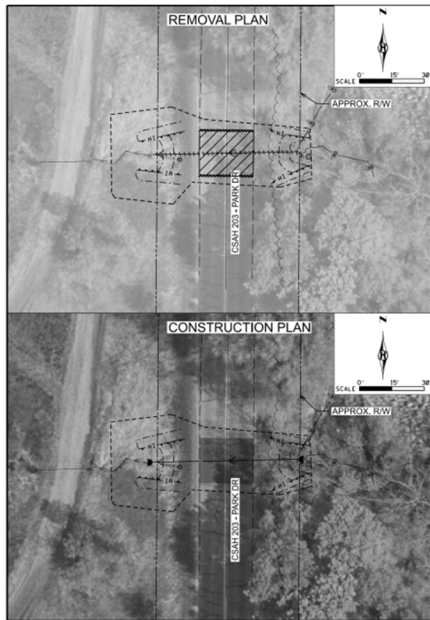
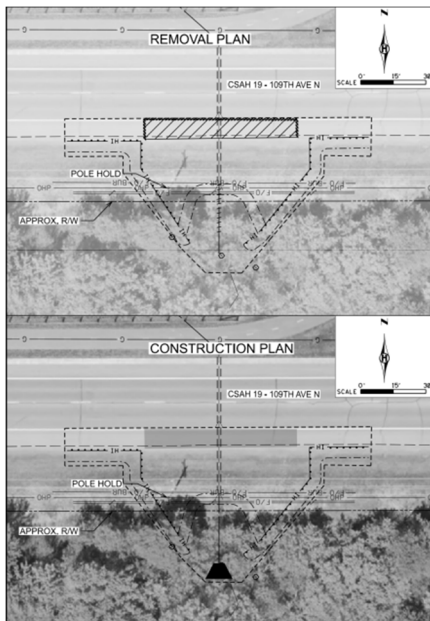


Figure 7 Culvert 6



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Tavera Phase 2 (North Side) City of Corcoran Project #2022-038

Project Overview:

Location: West of County Road 116 and North of Horseshoe Trail in Corcoran, MN
Purpose: The applicant is proposing to develop the site into a 296-unit housing development, with 214 single family detached lots and 82 attached townhouse units. The project is a second phase of a larger 548-unit housing development called Tavera. The total site area is 272 acres. Phase 2 will encompass approximately 175 acres and disturb 110 acres and create 37.6 acres of new impervious area.

WMC Rules Triggered:

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

Applicant: U.S Home Corporation DBA Lennar
Address: 16305 36th Ave N. Suite 600
Plymouth, MN

Attention: Paul J. Tabone
Phone: 952-221-4032
Email: PaulTabone@Lennar.com

Engineer: Pioneer Engineering
Address: 2422 Enterprise Drive
Mendota Heights, MN 55120

Attention: Paul Cherne
Phone: 651-251-0630
Email: pcherne@pioneereng.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	7/12/2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	7/12/2022
	<input checked="" type="checkbox"/> City authorization: Corcoran, MN	7/12/2022
	<input checked="" type="checkbox"/> Review fee: \$6,750.00	7/12/2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	7/12/2022

Submittals

1. Tavera Development Drainage Report by Advanced Engineering and Environmental Services (AE2S) dated June 29, 2021, with last revision dated June 29, 2022 (Draft)
 - a. Project Narrative and Summary
 - b. XP-SWMM (Electronic Modeling Files)
 - c. Web Soil Survey Report
 - d. Time of Concentration Calculations
 - e. Outlet Control Structure Details

- f. Ramsey/Washington Water Reuse Calculator and PondNet Summary
 - g. BMP exhibits
 - i. Phase I Storm Water Credits for Disconnected Impervious and excess wetland buffers.
 - ii. Tavera Phase I and 2 Irrigation area maps
 - iii. Tavera Phase 2 Floodplain and mitigation.
2. Tavera Phase 2 Grading Plan by Pioneer Engineering dated April 19, 2022, with most recent revision August 1, 2022.
 - a. Sheet 0.01, Cover Sheet
 - b. Sheet 0.02, Legend Sheet
 - c. Sheet 1.01, Demolition Plan
 - d. Sheets 2.01 to 2.14, Grading Plan
 - e. Sheets 2.21 to 2.25, Temporary Drainage Plan
 - f. Sheets 3.01 to 3.03, Erosion Control Plan
 - g. Sheets 4.01 to 4.03, Tree Preservation Fence Plan
 - h. Sheets 5.01 to 5.03, Seeding Plan
 - i. Sheets 6.01 to 6.04, Grading & Erosion Control Details.
3. Wetland Buffer Plan, 3 of 3 Sheets by Pioneer Engineering dated August 1, 2022.
4. Floodplain Impact and Mitigation Plan, Tavera Phase 2 by Pioneer Engineering dated 19, 2022, revised August 1, 2022.
5. Tavera 4th Addition Irrigation Plan by MTI Distributing dated June 14, 2022, 2 of 2 sheets.
6. Elm Creek Watershed Management Commission Request for Plan Review and Approval received July 12, 2022.
7. ECWMC project file 2021-018 for Tavera Phase 1.
 - a. Phase 1 and 2 WCA replacement plans
 - b. Phase 1 and 2 Stormwater Management Plans dated 5/27/2021
 - c. Phase 1 and 2 Geotechnical Exploration Report by Haugo GeoTechnical Services dated November 29, 2017.
8. MN Wetland Conservation Act Notice of Decision from LGU (City of Corcoran) dated April 1, 2021.

Findings

General

1. A complete application was received on July 12, 2022. The initial 60-day decision per MN Statute 15.99 expires September 10, 2022.
2. The site area for the entire Tavera development is approximately 272 acres. This permit is for Phase 2, which will disturb approximately 110 acres and create 37.6 acres of new impervious areas on north of Horseshoe Trail.
3. Phase 1 drained to the east into Hennepin County Ditch 16 (flows under CR 101 near the new Hy-Vee Store). Phase 2 flows north into the tributary stream that flows through the downtown Corcoran area and through the City Park before entering Rush Creek just north of CR 10.
4. Stormwater treatment BMPs would treat runoff from the Phase 1 and Phase 2 new impervious area, future grading on the north side of Horseshoe Trail, and future Hackamore Road improvements.
5. Elm Creek Watershed jurisdictional floodplains and wetland exist on site. An overall wetland impact permit (including Phase 1 and 2) was submitted and approved by the LGU as part of project 2021-018.

Rule D – Stormwater Management

General

1. Phase 2 will create 37.6 acres of new impervious surface.
2. The soils on the site are predominantly Hydrologic Soil Group Type D.
3. Soil borings indicate high clay content soils.
4. Stormwater in Phase 2 will be managed on the site through five stormwater basins.
 - a. Basins 600P and 650P will be stormwater reuse basins connected by an equalization pipe. They discharge into Wetland B.
 - b. Basin 700P is a wet detention pond (NURP) that outlets into Wetland B.
 - c. Basins 800P and 900P will also be stormwater reused basins connected by an equalization pipe under Zenwood Lane. Basin 900P will discharge into Wetland W which flows back under Zenwood Lane into Wetland C. Basin 800P will outlet into Wetland C.
5. Existing and proposed XPSWMM models were developed to demonstrate compliance with rate control requirements, demonstrate the impact of the project on the on-site wetlands, and evaluate low floor elevations for nearby structures.
6. Operation and maintenance plans and agreement must be provided to the Commission for their review and approval. These plans must include the irrigation system.

Low Floor Elevations

1. Plans **meet** Commission requirements for low floor and low opening elevations. Low floor elevation for proposed structures are at least 2.0 feet above the 100-year flood elevation and 1.0 feet above the emergency overflow of adjacent water bodies. Low openings adjacent to localized basins are at least 2.0 feet above the HWL and 1.0 foot above the NWL and emergency overflow elevations.

Water Quality Controls

1. Plans **meet** Commission requirements for water quality controls.
2. The five ponds are designed in accordance with the Elm Creek Watershed Management Commission NURP Basin requirements.
3. Existing conditions TP and TSS loading from the site were determined using the existing landcover and the ECWMC phosphorus loading guidance. TSS discharge was calculated based on the Event Mean Concentrations used in the MIDs Calculator.
4. Proposed conditions TP and TSS loading from the site were determined using PONDNET for NURP ponds and the Ramsey Washington Metro Watershed District stormwater reuse calculator for stormwater reuse.
5. The project meets the water quality requirements as shown in Table 1.

Abstraction Controls

1. Abstraction controls **meet** Commission requirements.
2. The required abstraction volume is achieved using stormwater reuse for irrigation, wetland buffers more than the minimum requirements, and disconnection of impervious surfaces.
3. The required abstraction volume for 37.6 acres of impervious area is 3.45 acre-feet.
 - a. The project provides 3.645 acre-feet of abstraction from irrigation.

- b. Abstraction credits from 11.9 acres (EC staff measurements on phase II) of excess buffer areas will be 0.74 acres (0.75" over 11.9 acres).
 - c. Impervious disconnection abstraction credits are 3.0 acres (EC staff measurements on phase II). (See figure 12).
4. Irrigation system pump and augmentation information is necessary.

Table 1 Water Quality Summary Phase 2

Condition	TP Load (lbs/year) ⁽¹⁾	TSS Load (lbs/year)	Filtration (acre-feet) ⁽²⁾
Pre-development (baseline)	96.2	17,561	--
Post-development without BMPs	176.2	21,363	3.45 (required)
Post-development with BMPs	68.6	7,817	4.385 (proposed) ⁽³⁾
Net Change	-27.6	-9,744	+0.935 (excess)

(1) Proposed Post-development with 76.6 acres draining into BMPs and a TP of 64.5 lbs/year plus remnant areas of 95.4 ac and TP load of 19.3 lbs/yr. Additional Post development TP reduction of 17.5 lbs/year from irrigation on 18 acres

(2) 37.6 acres of new impervious.

(3) 3.645 ac. ft. from irrigating and 0.74 ac. ft. from excess wetland buffer credits.

Rate Controls

1. Rate control measures **meet** Commission requirements.
2. Rate control for the site is provided by five constructed ponds in the Phase 2.
3. Phase 2 existing and proposed runoff rates for the 2-year, 10-year, and 100-year rainfall events were evaluated with XPSWMM at the discharge point from Wetland B at the north property line of Tavera.

Table 2 Rate of Discharge Leaving Site at North property line of Wetland B – Tavera Phase 2

Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Existing	9.6	26.6	151.5
Proposed	7.8	24.9	115.9
Change	-1.8	-1.7	-35.6

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices.
3. Erosion and sediment controls include temporary and permanent sediment basins with sequencing, proper perimeter controls with silt fence, rock construction entrances, biologs, inlet protection, erosion control blankets, riprap at all outfall locations, and temporary and permanent turf establishment.

Rule F – Floodplain Alterations

1. Plans **meet** Commission requirements for floodplain alterations.
2. Phase 2 of the project involves fill in the 100-year floodplain for two wetland basins along a tributary to Rush Creek. The fill is required to construct roads and stormwater treatment facilities.
3. Compensatory storage will be provided between the normal and high-water levels of the new ponding basins adjacent to the Wetlands B and C
 - a. Total floodplain fill will be 1,089 cubic yards.
 - b. Total floodplain mitigation will be 4,376 cubic yards.
4. The XPSWMM models demonstrate that the project will not significantly alter the timing of flooding or cause high water above existing conditions within the 100-year floodplain.

	Pre-development 100-year elevation	Post-development 100-year elevation	Change in Elevation
FEMA Floodplain Wetland B	970.9	970.7	-0.2
FEMA Floodplain Wetland C	973.7	973.3	-0.4

Rule G – Wetland Alteration

1. Wetland alterations will meet the Commission's requirements.
2. MN WCA compliance is managed by the City of Corcoran (LGU)
3. During Phase 1 project review, all wetland impacts in phases 1 and 2 were accounted for and approved by the LGU on April 1, 2021.
 - a. Total wetland impacts are 3.7861
 - b. Wetland bank credits were purchased from BWSR accounts 1560, 1522, and 1664.

Rule I – Buffer Strips

1. Plans **meet** Commission requirements for buffer strips.
2. Buffer strips are provided around all on site wetlands meeting or exceeding the minimum buffer width requirements.
 - a. Excess buffer area will be 11.9 acre in phase 2 (per EC staff measurements).
 - b. Buffer monumentation and vegetation restoration meets Rule I requirements.

Recommendation.

Approval, contingent upon,

- 1) Operation and maintenance plans and agreement must be provided to the Commission for their review and approval. These plans must include the irrigation system.
- 2) Irrigation system pump and augmentation information is necessary.
- 3) The ECWMC escrow balance must be rectified to the satisfaction of the Commission Administrator.



August 3, 2022
Date

James C. Kujawa
Surface Water Solutions
Advisor to the Commission

Attachments

- | | |
|-----------|---|
| Figure 1 | Project Location |
| Figure 2 | Site Boundary |
| Figure 3 | Site Plan and Phase Area s |
| Figure 4 | Offsite Drainage Patterns |
| Figure 5 | Wetland and Floodplain Site Map |
| Figure 6 | Phase 2 Grading Plan |
| Figure 7 | Phase 2 Grading Plan –Stormwater Basins |
| Figure 8 | Phase 2 Floodplain Fill and Compensatory Storage |
| Figure 9 | Phase 2 Stormwater Reuse - Irrigated Areas |
| Figure 10 | Phase 2 Wetland Buffers and Disconnected Impervious |

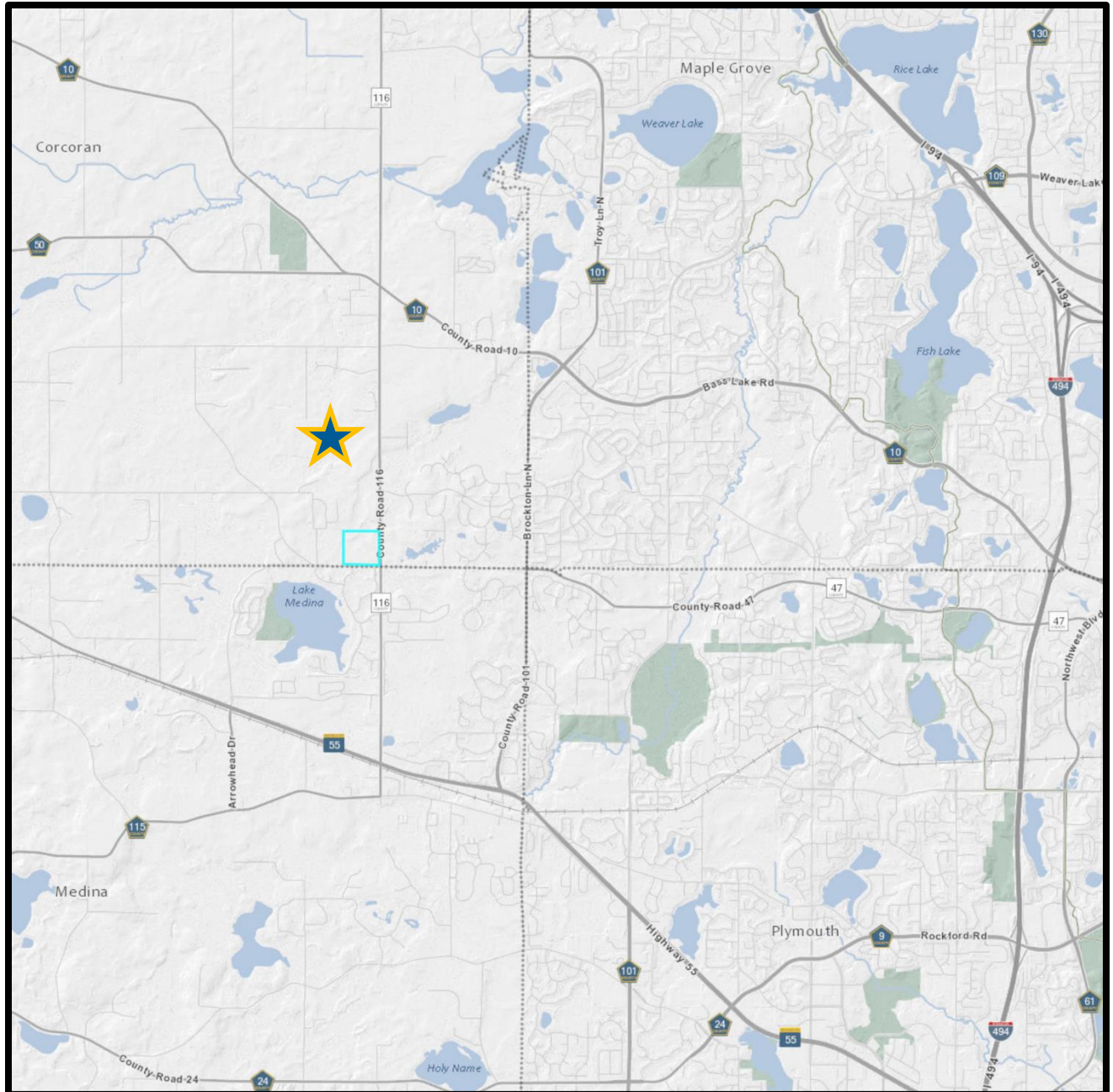


Figure 1 Project Location

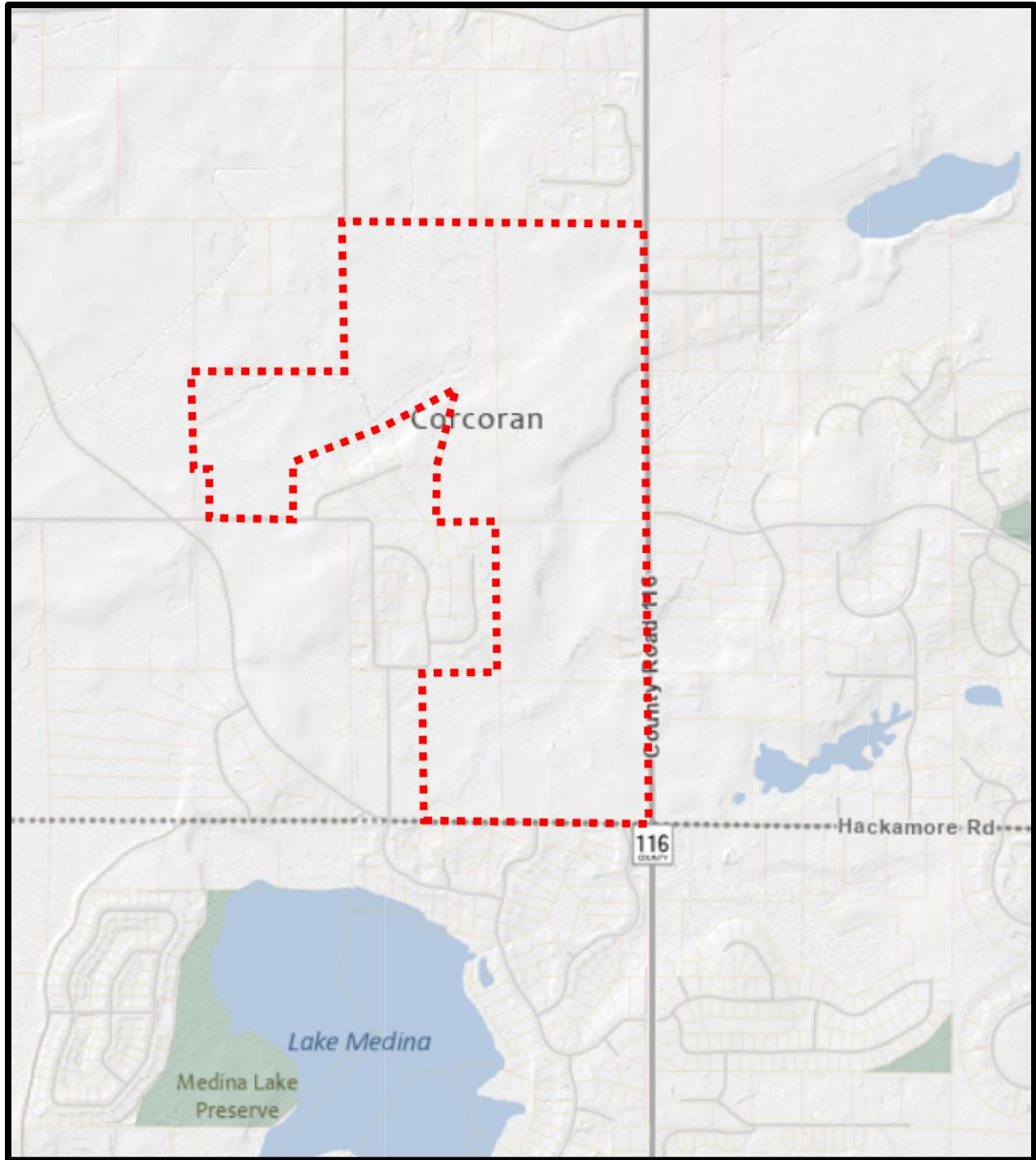


Figure 2 Site Boundary

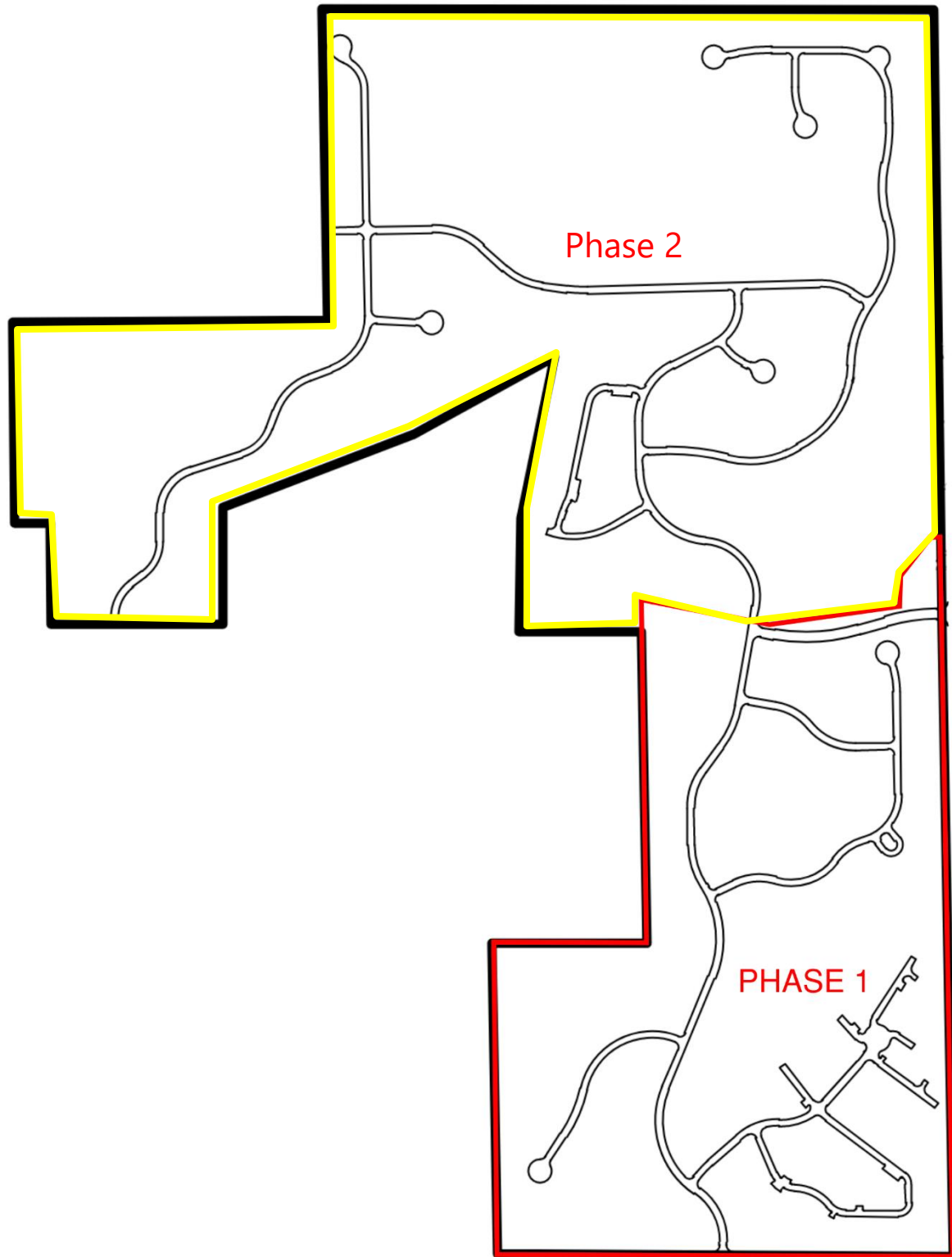


Figure 3 Site Plan and Phase Areas

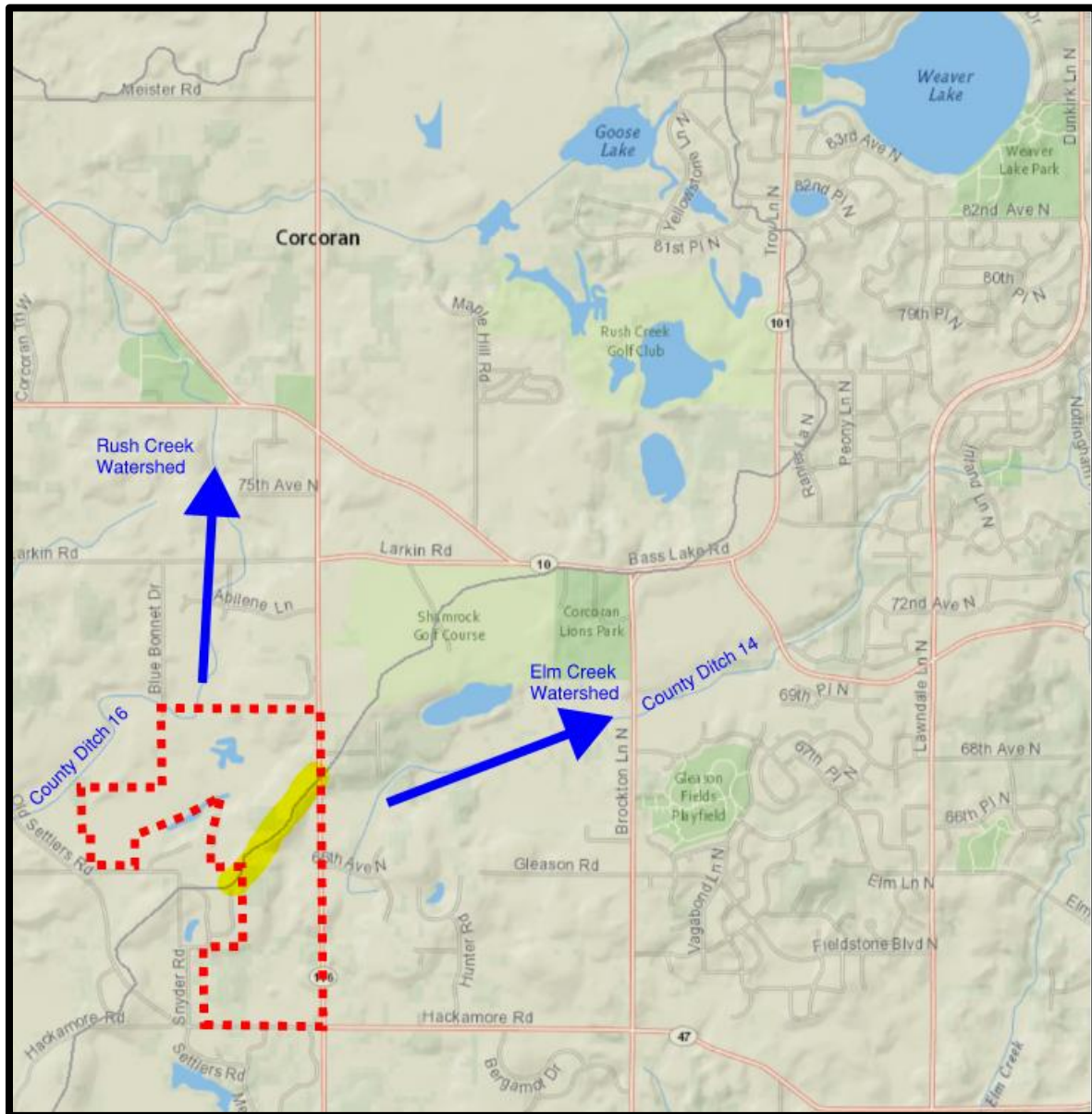


Figure 4 Offsite Drainage Patterns

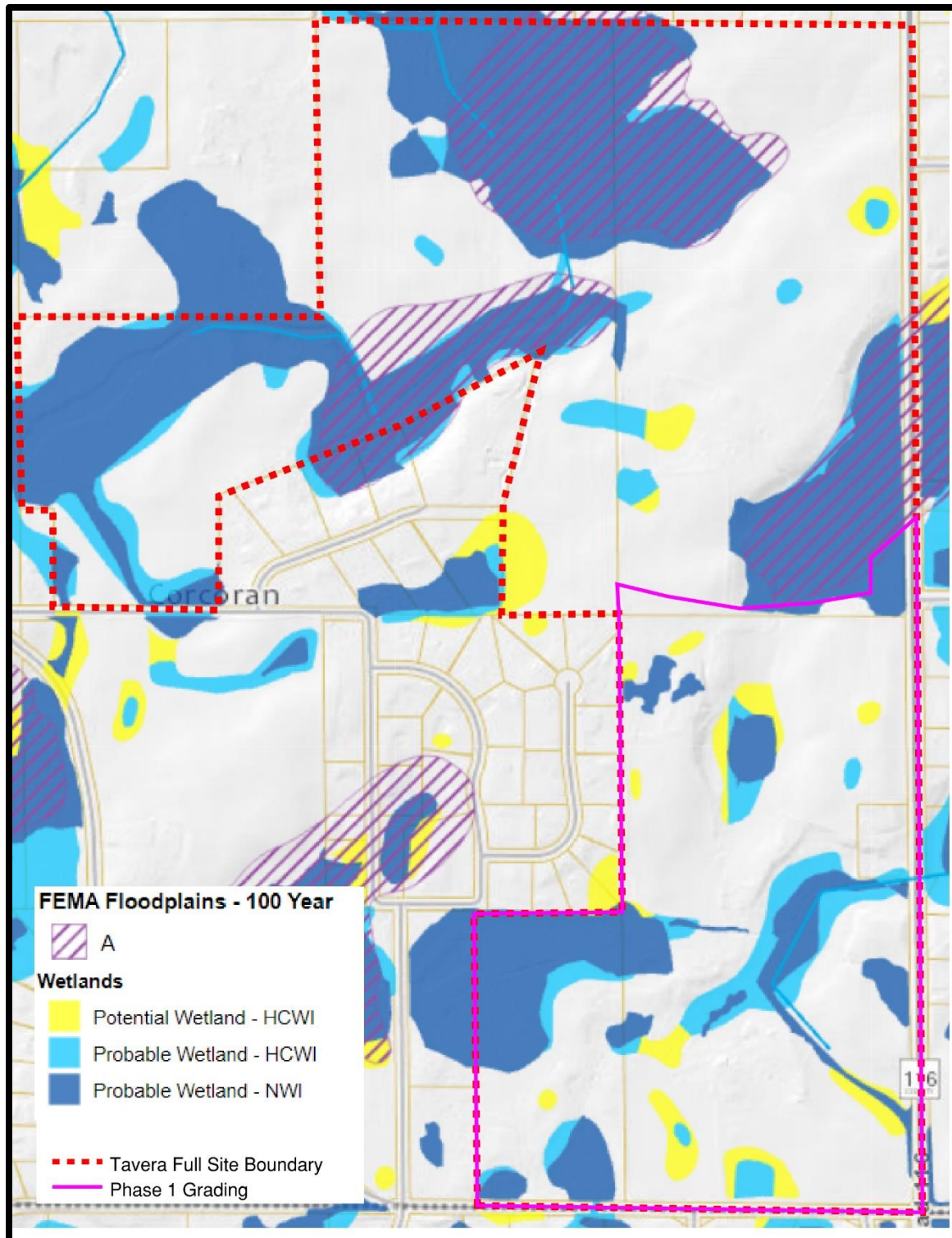


Figure 5 Wetland and Floodplain Site Map

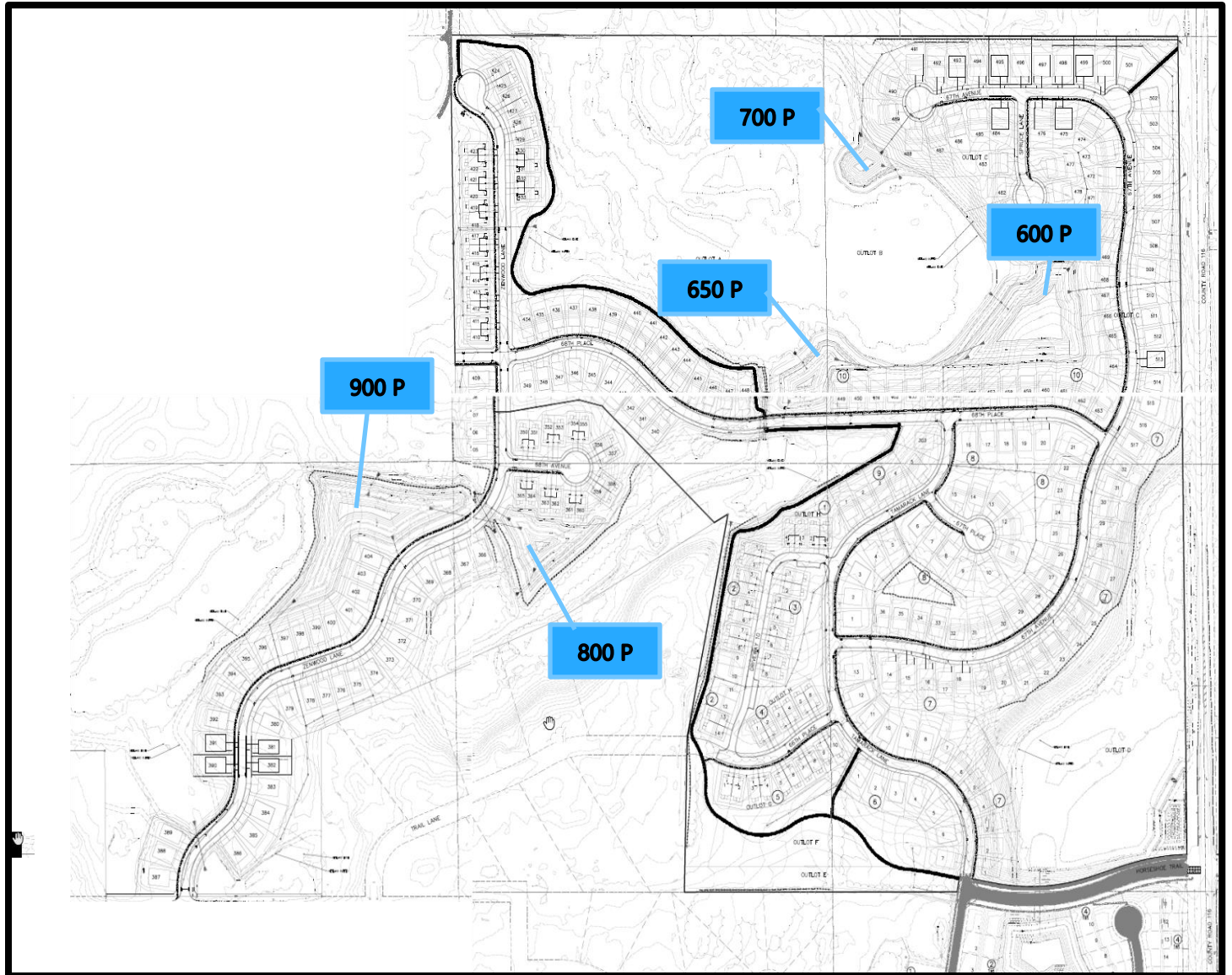


Figure 6 Phase 2 Grading Plan

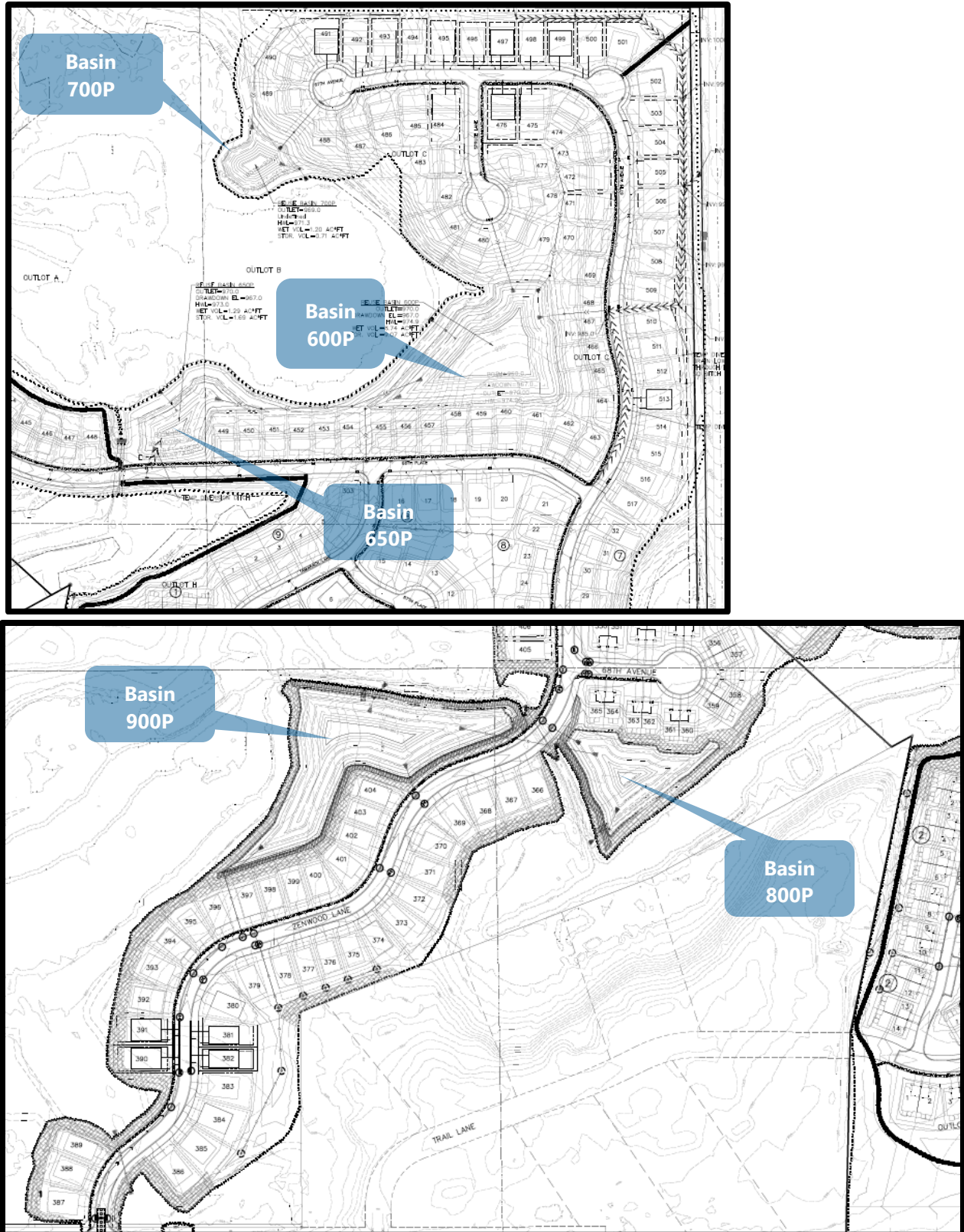


Figure 7 Phase 2 Grading Plan – Stormwater Basins

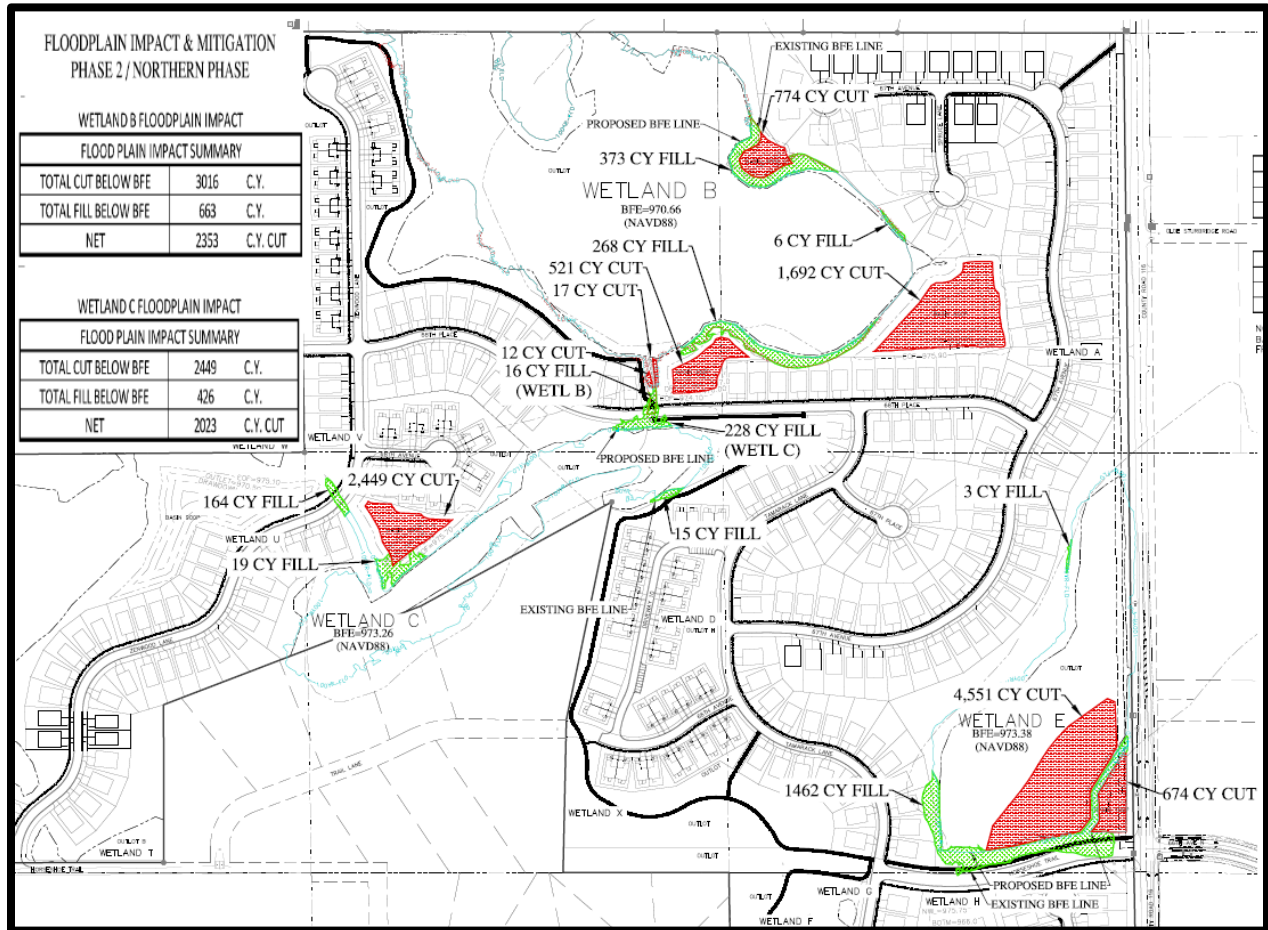


Figure 8 Phase 2 Floodplain Fill and Compensatory Storage

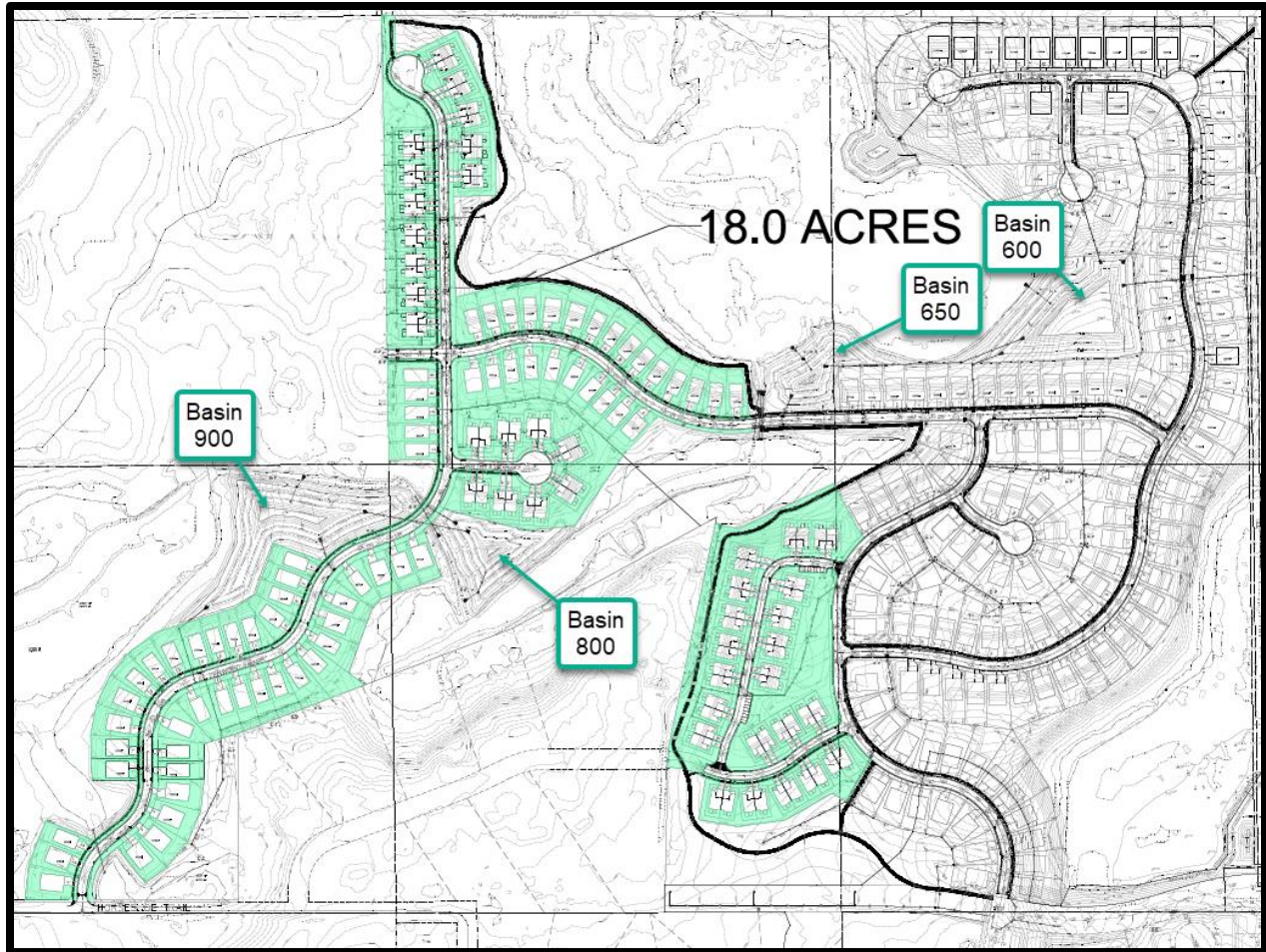


Figure 9 Phase 2 Stormwater Reuse - Irrigated Areas

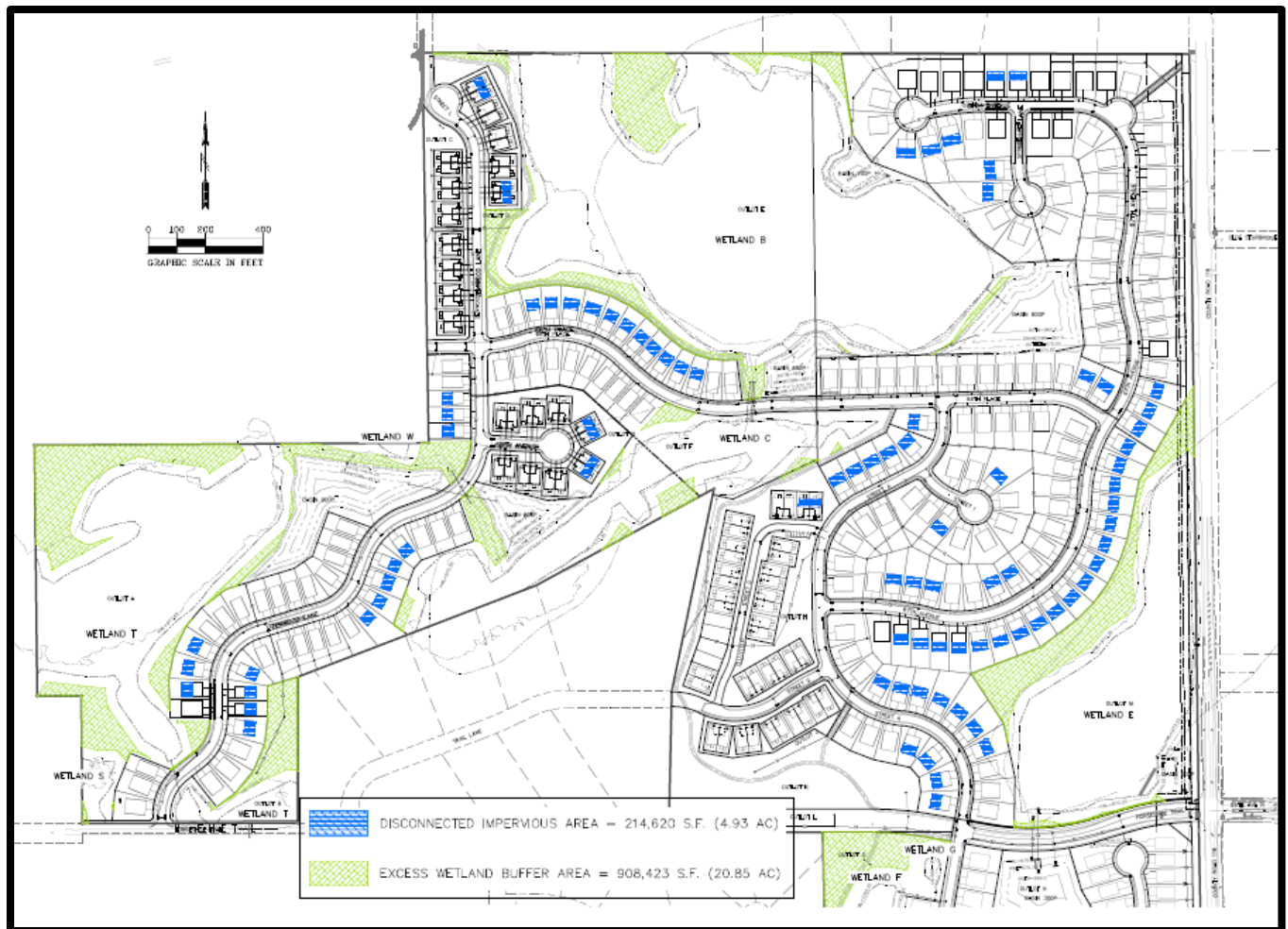


Figure 100 Phase 2 Wetland Buffers and Disconnected Impervious

To: Elm Creek WMO Commissioners

From: Erik Megow, PE
Diane Spector

Date: August 3, 2022

Subject: 2022 CIP Call for Public Hearing

**Recommended
Commission Action**

By motion receive the feasibility study for the South Fork Rush Creek project. By motion call for a Public Hearing on September 14, 2022 to consider proposed projects and proposed levies

The Commissions had previously established the maximum proposed levy for the 2022 Capital Improvement Program (CIP). The next step in the process is to receive and discuss a feasibility study for the proposed capital project and call for a public hearing to consider a levy for that project and two other ongoing programs. Tables 1 and 2 attached show the projects under consideration and their funding followed by short project summaries.

Feasibility Study. There is one capital project on the CIP for 2021. The Commission added the South Fork Rush Creek project to the CIP at its May 11, 2022 meeting. This project is the stabilization and restoration of the South Fork from 101st Avenue N to its confluence with Rush Creek (Figure 1), approximately 7,200 linear feet. The project will include stabilization and restoration of the banks using both hard armoring and biorestation; reconnection to the floodplain; restoration and enhancement of the stream buffer; and adding in-stream habitat features. The City of Maple Grove engaged Stantec to complete a condition assessment and feasibility study and to prepare conceptual designs. The City has also engaged Stantec to prepare final design and construction documents. The City intends to construct the project in 2023 but has requested the Commission to levy its share of the project cost over two years. *Staff has reviewed the Feasibility Study and recommend that you formally receive the Study.*

Other Programs on the CIP. The proposed CIP also includes the annual levies for the City Cost Share and Partnership Cost Share programs.

Public Hearing. The final step in the CIP process is to hold a public hearing on the proposed projects and programs. This should occur at the Commission's regular September 14, 2022 meeting. At that time the Commission will formally order the projects, certify levies to Hennepin County, and authorize the execution of cooperative agreements with Maple Grove as the lead city to contract the ordered projects.

Table 1. Elm Creek 2022 CIP Projects (2023 levy).

Project	Total Estimated	City/Private	Grant	Commission Share
South Fork Rush Creek	\$3,250,000	\$2,437,500	*	\$406,250 **
City Cost Share Program	200,000	100,000	0	100,000
Partnership Cost Share Program	50,000	0	0	50,000
Subtotal	\$3,500,000	\$2,537,500	\$0	\$556,250
5% additional for legal/admin costs				27,812
Subtotal				584,062
TOTAL LEVY (101% for uncollectable)				\$589,903

*CWF application in process

**2022 share; and additional \$406,250 will be levied in 2023.

Table 2. Levy by project.

Project	Total Levy
South Fork Rush Creek	\$430,828
Cost share (city projects)	106,050
Partnership cost share (private projects)	\$53,025
Total	\$589,903

Project Descriptions

Project 2022-01. South Fork Rush Creek Stream Restoration. Restoration of 7,200 feet of the South Fork Rush Creek from 101st Avenue N to its confluence with Rush Creek in Maple Grove (Figure 1). This project will stabilize and restore eroding streambanks, improve floodplain access, enhance habitat and improve biotic integrity, and reduce sediment load by an estimated 410 tons/year and TP by 424 pounds/year.

Project 2022-02. City Cost Share. This annual project provides cost sharing to retrofit smaller BMPs on city property on a voluntary basis. The TAC developed policies and procedures to administer these funds and makes recommendations to the Commission on which projects should be funded.

Project 2022-03. Partnership Cost Share. This program makes funds available to member cities to help fund the cost of Best Management Practices (BMPs) partnership projects with private landowners. Participating projects on private property must be for water quality improvement and must be for improvement above and beyond what would be required to meet Commission rules.

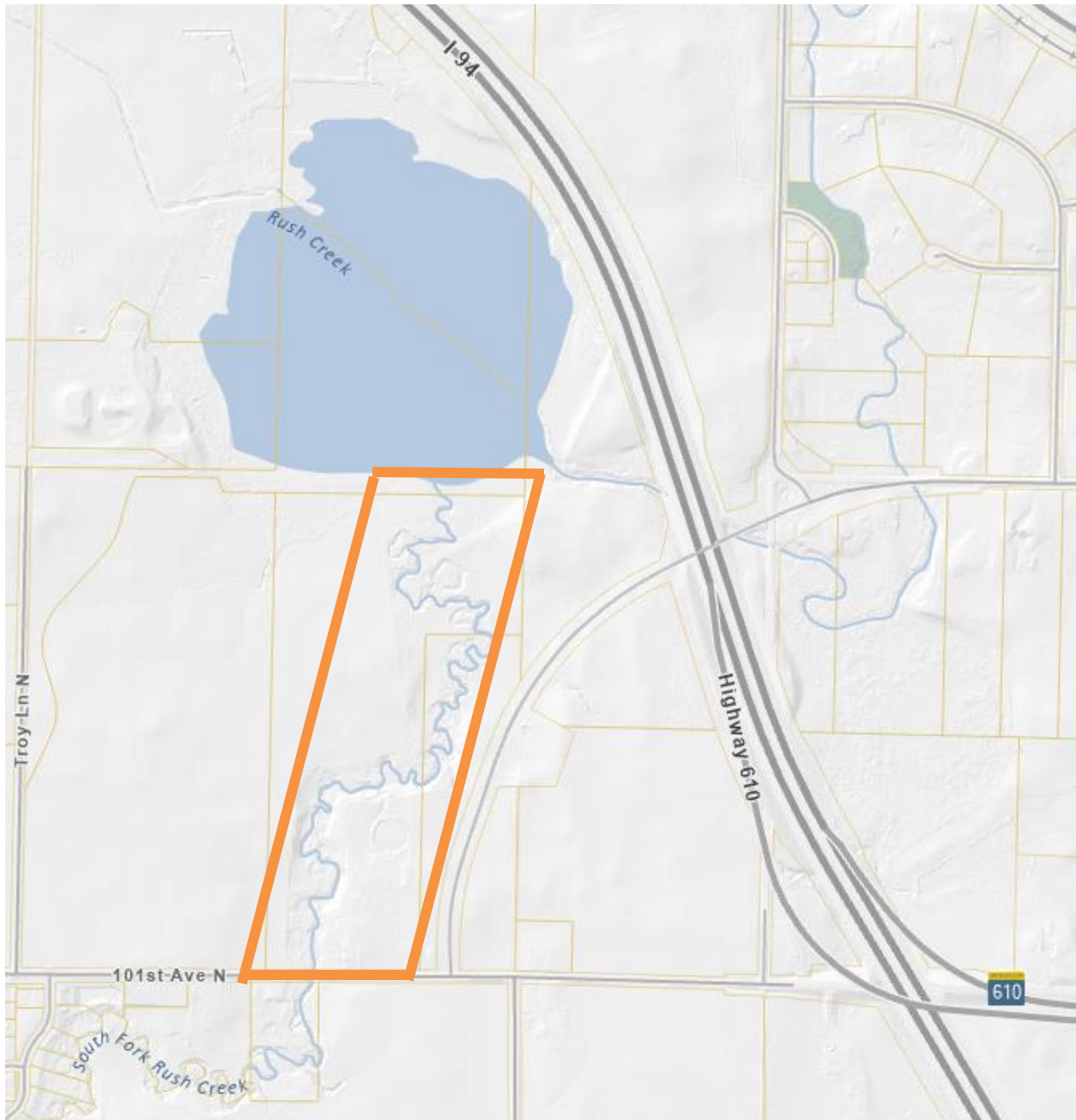


Figure 1. S Fork Rush Creek project location.

elm creek Watershed Management Commission

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PH: 763.553.1144 | email: judie@jass.biz
www.elmcreekwatershed.org

TECHNICAL SUPPORT
Erik R. Megow | erik.megow@stantec.com
James Kujawa | surfacewatersolutions@outlook.com
Rebecca Carlson | rebecca@resilience-resources.com

STAFF REPORT August 3, 2022

- a. 2017-050W Ernie Mayers Wetland/floodplain violation, Corcoran.** The City of Corcoran contacted the Commission in 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. In 2018, an appeal of the restoration order was received by the Board of Water and Soil Resources. BWSR placed an order of abeyance (stay) on the appeal looking for a resolution between the LGU and Mayers. The parties came to an agreement to resolve the violation in 2021. The agreement has been signed by BWSR, Corcoran and Mayers. Staff has not been provided with a copy of the agreement to date. BWSR responded that said agreement is not available unless released by one of the signers. Note, the WCA agreement does not resolve the Commission's floodplain fill issue from this wetland work. Staff sent correspondence to that effect to Mayers on February 1, 2022, requesting an application and site plan. *No new information was received this month.*
- b. 2021-025 Hackamore Road Reconstruction, Corcoran/Medina.** The cities of Corcoran and Medina plan to reconstruct 1.3 miles of Hackamore Road from just west of CR 116 to CR 101. The project will add 4.4 acres of new impervious surface along the stretch of roadway by widening the roadway, adding turn lanes, pedestrian facilities, and utility improvements. To meet the Commission's stormwater requirements, the project will largely rely on adjacent developments (both existing and proposed) to incorporate BMPs to provide rate control, volume control, and water quality control. Staff reviewed the early application and provided comments to the applicant. Staff awaits response from the applicant on this project.
- c. 2021-026 Prairie Creek, Medina.** This proposed development will consist of a new 17-lot single-family development encompassing approximately 6.72 acres located on Hamel Road at Elm Creek Drive. There will also be a new private street, concrete walks, and utilities. This project was approved by the Commission at their September meeting conditioned upon, (a) determination of the final escrow fee balance when all conditions for approval are met and (b) wetland buffer monumentation meeting Commission requirements. In March and April modifications were proposed to the original site plans approved by the Commission. *The homes are being changed from slab-on-grade to full basements.* Elevations on four of the homes do not meet the Commission's 2-foot separation requirements between the adjacent pond highwater level vs the low floor elevation. The applicant is considering additional revisions to the buildings and layout and resubmittals. *No new information was received this past month.*
- d. 2021-028 Cubes at French Lake, Dayton.** This project is four parcels totaling 71.62 acres located south of 117th Avenue and north of the intersection of 113th Ave. and CSAH 81. It includes construction of a 996,960 SF industrial building with associated parking and utility improvements. In addition, the project includes the construction of Dayton Parkway from CSAH 81 to 117th Avenue North. The Commission approved this project on November 10, 2021, conditioned upon: (a) a stormwater system operation and management agreement being approved by the Commission and the City and recorded on the land title within 90 days after the final plat approvals. A copy of the recorded agreement must be provided to the Commission prior to the Commission's final approval, (b) Prior to impacts, wetland and wetland buffer strips must comply with the City

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of Dayton, the Minnesota Wetland Conservation Act, and Commission rules, (c) Permanent easements on wetland and buffer areas, and (d) final escrow balance determination when final approval is granted (without remaining conditions). The wetland replacement plans have been approved by the City. Revisions to the plan dated February 14, 2022, were reviewed and approved by Staff. Contingencies Items a, b, and c above are also acceptable. *The escrow balance has been refunded. This item will be removed from the report.*

e. 2021-029 TriCare Grocery, Maple Grove. The project will construct a grocery store, retail, and associated parking on approximately 2.5 acres of the 62.7-acre TriCare parcel, which is located just north of County Road 30 and southwest of I-94. The project was reviewed for Rules D and E. Staff issued a denial in 2016 when the regional stormwater BMP project was constructed. On November 10, 2021, the Commission approved this project contingent upon reconciliation of the escrow balance and the City reconstructing the basin to meet Commission rules and standards.

f. 2021-031 Cook Lake Edgewater, Corcoran/Maple Grove. The application is for a 28.4-acre development just north of Bass Lake Road, on both sides of the Corcoran-Maple Grove municipal boundary. The development includes 60 single-family homes in Maple Grove, 12 single family homes in Corcoran, and senior care and memory centers in Corcoran. The project was reviewed for Rules D, E, G, and I and approved at the November 2021 meeting with four contingencies. This project will be removed from the report pending reconciliation of fee escrows and complete documentation that the project has met contingencies listed for approval.

g. 2021-034 BAPS Temple, Medina. This project includes construction of a Hindu Temple, dining hall, gymnasium, parking lot and one permanent residency for the temple's priest on a 19.7-acre parcel at 1400 Hamel Road. The parcel currently serves as a farmstead with a farmhouse and barns. The project was reviewed for Rules D, E, G, and I and approved at the October 2021 meeting contingent on three conditions: (1) reconciliation of the escrow balance, (2) an operation and maintenance agreement with the City, and (3) a geotechnical report provided to the Commission.

h. 2021-037 Marsh Pointe, Medina. The Marsh Point project (also called the Arrowhead Drive project) includes construction of 38 single-family homes on the east side of Arrowhead Drive, west of Lake Medina. The development will replace four existing homes. The project was reviewed for Rules D, E, F, G, and I and approved at the December 2021 meeting condition on receipt of four items: (1) the escrow balance, (2) a Stormwater Maintenance Agreement, including irrigation system, being entered into with the City, (3) a wetland replacement plan approved by the LGU and the TEP, and (4) the buffer plan contingent upon approval of the wetland replacement plan. *The Stormwater Agreement was received on July 25, 2022. This project will be removed from the report upon receipt of the escrow balance.*

i. 2021-038 Bellwether 6th/Amberly, Corcoran. The Bellwether 6th Addition and Amberly 1st Addition are developments in the city of Corcoran just west of County Road 101 and south of Stieg Road proposed for single-family homes. They are part of a 74 acre parcel also known as the Van Blaricom development. This project is located immediately west of the previous Bellwether developments (Encore) and was reviewed for Rules D, E, F, G, and I. It was approved at the December meeting with five conditions: (1) reconciliation of project escrows, (2) provision of a Stormwater Maintenance Agreement, including irrigation system, acceptable to the City and the Commission within 90 days after the plat is recorded for all stormwater BMP's on the site, (3) receipt of a wetland replacement plan approved by the LGU and the TEP, and (4) receipt of a buffer plan contingent upon approval of the wetland replacement plan.

j. 2021-039 I94 Logistics Center, Rogers. This is a 30.90-acre site located between I-94 on the west and County Road 13 (Brockton Lane) on the east. A proposed warehouse, parking lot, and loading dock will create

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12.5 acres of new impervious on the site, which is currently undeveloped. Approximately 12.25 acres of the parcel is in a conservation easement to protect woodlands and wetlands and cannot be developed. The project was reviewed for Rules D, E, G, and I and approved at the October 2021 meeting contingent on three conditions: (1) reconciliation of the escrow balance, (2) an operation and maintenance agreement with the City, and (3) a WCA reapproval of the proposed wetland impacts. *This project will be removed from the report upon receipt of the escrow balance.*

k.. 2021-043 Northwood Community Church, Maple Grove. The existing project site is owned by Northwoods Community Church and functions as church offices. The proposed project demolishes those office buildings and constructs a church on the 10.56-acre parcel. The project was reviewed for Rules D, E, G, and I and approved at the February 2022 meeting contingent on receipt of the escrow fee balance and a Stormwater Maintenance Agreement enacted between the applicant and the City.

l. 2021-044 Balsam II Apartments, Dayton. The Commission approved this project in January 2022. As of this update the final infiltration testing of the stormwater basin and the escrow balance are the only conditions outstanding.

m. 2021-046 Len Busch Roses, Plymouth. This project proposes to add an additional 25,00-square foot greenhouse on this site, disturbing 1.70-acres and creating 0.64-acres of new impervious. The project was reviewed for Rules D and E and approved at the February 2022 meeting contingent on two conditions: receipt of escrow fee balance and a Stormwater Maintenance Agreement enacted between the applicant and the city. *This project will be removed from the report upon receipt of the escrow balance.*

n. 2021-047 CR 10 Box Culvert Replacement, Corcoran. Hennepin County will be replacing an existing 6'x10" box culvert with a 6'x6", 6'x4' and a 36" CMP pipe to replicate the existing flows of Hennepin County Ditch #16 under CR 10. The project was reviewed for Rules D, E, F, G, and H and approved at the February 2022 meeting contingent on two conditions: receipt of escrow fee balance and an approved wetland alterations plan.

o. 2021-048 Bellwether-Newman West, Corcoran. This parcel is the most recent phase of the Bellwether/Encore development. It is in the southwest 58-acre quadrant of the overall project (previously called the Encore development) located west of CR 101, south of Stieg Road, and north of CR 30. It was reviewed for grading and erosion control and consistency with the previous approvals. The original phase I grading and the overall stormwater management plans for this project were approved by the Commission under project 2018-032. In their findings dated November 24, 2021, Staff administratively approved the project with four conditions. *This project will be removed from the report upon receipt of the escrow balance.*

p. 2021-049 Dayton Interchange Business, Dayton. This is a 14-acre site, proposed to be developed into a 124,000 SF office/warehouse building along with truck staging area, parking areas and related utilities. Two filtration basins are proposed for stormwater management and construction of 6.93 acres of new impervious areas. The Commission approved *staff's findings and recommendations dated June 26, 2022. Approval is contingent upon. 1) An operation and maintenance plan for the stormwater facilities on this site being approved by the City of Dayton; 2) Filter media mix C in the detail for Basin 1 on sheet 9.01 be changed to Mix C; and 3) Final application escrow fee reconciliation.*

q. 2021-050 Evanswood, Maple Grove. This proposed development will construct 227 single-family and 138 townhomes in the northwest corner of Maple Grove, disturbing 108.5-acres, and creating 45.8-acres of impervious surfaces, 41.4-acres of which is net, new impervious surfaces. The project was reviewed for Rules D, E, F, G, and I and approved at the March meeting contingent on five conditions: (1) final escrow balance be-

ing reconciled; (2) the applicant shall provide a Stormwater Maintenance Agreement that is acceptable to the city and the Commission within 90 days after the plat is recorded for all stormwater BMP's on the site that will not be operated and maintained by the city. Because the irrigation system included with the stormwater reuse BMP is part of the overall water reuse system that is necessary to meet the Commission's standards, the irrigation system shall be included in the Stormwater Maintenance Agreement. The applicant should provide irrigation distribution plans (pipe locations, size, preliminary pump plan, augmentation water info, area to be irrigated, and demonstration that the receiving soils have infiltration capacity) and an Operation and Maintenance Plan for the stormwater system, including the irrigation system; (3) the wetland de minimis exemption plan approved by the LGU and the TEP; (4) wetland monumentation along Lots R1 through R40 and U1 through U22 shall be in provided in accordance with Commission standards; and (5) a rock construction entrance shall be provided for Driveway #1 for access from 105th Avenue North.

r. 2021-051 Fields of Nanterre, Plymouth This project is the proposed maintenance of an existing drainage swale to remove accumulated sediment and cattails. The project does not create any new impervious surfaces. The project triggers Rules E and G. In their findings dated November 22, 2021, Staff administratively approved the project contingent on (1) final escrow balance being reconciled and (2) an approved wetland no-loss decision or alternate approved wetland decision type being submitted to the Commission. *The WCA Notice of Decision – No Loss, was received in the Commission office on July 21, 2022. This project will be removed from the report upon receipt of the escrow balance.*

s 2021-052 Norbella Senior Living, Rogers. This project will construct a 40-unit senior living facility on South Diamond Lake Road. The proposed disturbance is 2.4-acres with net, new impervious surfaces of 1.4-acres. The project was reviewed for Rules D and E and approved by the Commission with three conditions: (1) final escrow balance being reconciled, (2) a stormwater maintenance agreement being put in place between the owner and the city with terms acceptable to the Commission, and (3) a detail being added to the construction drawings showing the inspection ports being installed along the isolator row of the underground filtration system.

t. 2021-053 Towns at Fox Creek, Rogers. This proposed development will construct 150 multi-family townhomes between Industrial Boulevard and Hynes Road, disturbing 15.4-acres with 7.46-acres of impervious, 5.88-acres of which is net, new impervious surfaces. The project was reviewed for Rules D, E, and G and approved at the Commission's May meeting with three conditions: final escrow determination, a stormwater maintenance agreement acceptable to the City and the Commission within 90 days after the plat is recorded for all stormwater BMPs on the site that will not be operated and maintained by the City, and WCA Approval of the wetland fill and decision of outcome from the TEP. *This project will be removed from the report upon receipt of the escrow balance.*

u. 2021-054 Stotts Family Farm Grassed Waterways, Corcoran. This is a 100-acre agricultural parcel located on CR 19. It is on the east side of CR 19 about one mile north of the intersection of CR 19 and Highway 55. The landowner is installing five grass waterways to stabilize channelized areas in his cropland. This work will grade and shape the channel areas to accommodate crossing of farm equipment and establish perennial grass vegetation to prevent future gully erosion. The project was administratively reviewed and approved for grading and erosion control (Rule E) by Staff. Revised plans received March 28, 2022, meet the Commission's requirements. *The escrow balance will be refunded and this item removed from the report.*

v. 2021-055 Morningside Estates 6th Addition, Champlin. This proposed development will construct seven single-family homes adjacent to the recently reviewed Oaks at Bauer Farm (2021-012) on the north side of French Lake Road, disturbing 2.8-acres and creating 0.8-acres of net, new impervious surfaces. The project

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was reviewed for Rules D and E and received approval at the Commission's April meeting contingent on final escrow determination and O&M agreements with both the City and with the Oaks at Bauer Farms HOA with terms acceptable to the Commission being filed.

w. 2022-001 Dayton Field 2nd Addition, Dayton. This is two parcels, 56 acres in size, proposed to be developed into two industrial lots and an outlot. Lot 1 will be an industrial building and lot 2 is proposed for a self-storage facility. Revised plans received May 2 were reviewed and are recommended for contingent approval by Staff. Recommended contingencies for approval are: a) Elm Creek administrative office escrow review and release and b) long-term operation and maintenance compliance per Commission requirements. At their May 2022 meeting, the Commission approved Staff's findings and recommendations.

x. 2022-002 Summerwell Townhomes, Maple Grove. This project is for construction of a 26-acre site into a residential townhome community. It will create 13-acres of impervious, all of which is net, new impervious. The project triggers Rules D, E, G, and I and was approved at the Commission's June meeting with three conditions: (1) determination of escrow fee balance; (2) receipt of an Operations and Maintenance Plan approved by the City of Maple Grove, and (3) provision of a wetland monitoring plan with four conditions.

y. 2022-003 Fox Briar Ridge East, Maple Grove. The proposed project is for construction of eight townhomes and one single family home with associated sidewalks, roads, and stormwater infrastructure. The project will create 1.81-acres of impervious, 1.68-acres of which is net, new impervious. The project triggers Rules D and E. The applicant extended the 15.99 deadline to June 7, 2022. This project received approval at the Commission's April meeting with two conditions: final escrow determination and provision of a stormwater maintenance agreement acceptable to the City and the Commission within 90 days after the plat is recorded for all stormwater BMPs on the site that will not be operated and maintained by the City.

z. 2022-005 Bellwether 7th Addition Corcoran. The project site is a 4-acre parcel within the Bellwether project, known as the Schober property. The proposed project would construct 17 single-family homes and expand existing pond 6N. The project was part of previous Bellwether project reviews and therefore only triggers Rule E. The only outstanding item is the escrow reconciliation.

aa. 2022-006 Hamel Townhomes, Medina. The proposed project is for construction of 30 townhomes with associated sidewalks, roads, and stormwater infrastructure. The project will create 1.76-acres of impervious, 1.54-acres of which is net, new impervious. The project triggers Rules D and E. *The applicant provided the latest resubmittals on July 11, 2022. In their findings dated August 2, 2022, Staff recommends approval with three conditions.*

ab. 2022-007 Weston Commons 2nd Addition, Maple Grove. The proposed project is for construction of 82 row, townhomes with associated sidewalks, roads, and stormwater infrastructure. The project triggers Rules D, E, and I. This project was approved at the Commission's April meeting pending final escrow determination.

ac 2022-008 Bechtold Farms, Corcoran. This is two parcels that total 117.6 acres proposed to be subdivided into 12 large, single-family lots.. The project will create 6.3-acres impervious areas, 4.5-acres which are net, new impervious. The project triggers Rules D, E, F, G, and I. The project was reviewed at the April 2022 Commission meeting and approved contingent upon the following conditions: (1) Final escrow determination; (2) Preservation areas meeting the following criteria:(a) A long-term vegetation management plan describing methods of maintaining the conservation area in a natural vegetative condition must be submitted with the he stormwater management plans. (i) An analysis of the conservation easement areas should be provided by an arborist or similar knowledgeable expert and include existing quality and quantity of native and non-native species. A plan to preserve, restore and protect native vegetation and control invasive species is needed and

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must be incorporated into the conservation easement. Newly restored preservation areas must have a minimum establishment of >70% native species and <5% invasive species; (b) A recordable conservation easement acceptable to the City and Commission for protecting the excess preservation areas must be provided and include the long-term management plan as part of the document. (c) Because the City will be the easement holder, they must agree with the preservation area and its management, restrictions, and preservation plan; (d) Conservation easement areas must have appropriate monumentation per wetland buffer spacing requirements; (3) An operation and maintenance agreement implementing those conditions that bind current and future owners of the project shall be recorded on this property; (4) Prior to any wetland impacts a wetland replacement plan must be approved by the City of Corcoran (LGU); (5) The buffer vegetation must meet Commission requirements for native vegetation establishment and maintenance. Additionally, the Commission added an advisory recommendation that the City/applicant follow the Commission's Model Livestock Policy. The vegetation management plan for the wetland buffers and preservation areas was approved by Commission staff on May 3, 2022. The City of Corcoran is working on the conservation easements and O & M agreements. Staff provided the Commission's livestock guidelines to the applicant and the City.

ad. 2022-009 Dunkirk Lane Development, Plymouth. The project is located in the southwest quadrant of the intersection of Dunkirk Lane and 59th Avenue N. The proposed development includes construction of 21 single-family home units and associated streets, utilities, and stormwater management basin. The Commission review covered Rules D and E and the project received approval at the April meeting with three contingencies: (a) final escrow determination; (b) an updated detail for OCS 105 (Sheet 8 of 21) showing the 2'-wide by 1'-deep notch in the weir modeled in HydroCAD; and (c) Eliminate the redundant 5-foot weir in the HydroCAD model for the pond outlet. It is understood that removal of this weir will not affect hydraulics or results for the 2-, 10- and 100-year storm HydroCAD modeling results but should be updated to be consistent with what is being constructed.

ae. 2022-010 Unity Tool Building Addition, Dayton. This site is located at the northeast intersection of County Road 81 and Troy Lane, across CR 81 from the Auto Auction site. The plan proposes to disturb 1.4 acres to expand the existing building by 16,075 square feet, reconfiguring the surface pavement and landscape areas, construct a stormwater basin and install site utilities. *At their July 2022 meeting the Commission approved Staff's finding and recommendations dated July 2, 2022. The Commission's approval is contingent upon. 1) A Stormwater Maintenance Agreement acceptable to the city and the Commission being recorded for all stormwater BMPs on the site that will not be operated and maintained by the city, and 2) Escrow balance determination by the Commission Administrator.*

af. 2022-011 Arrowhead Drive Turn Lane Expansion, Medina. This project consists of a linear project for the City of Medina and a private site expansion for Open Systems International (OSI). The City will be constructing a stormwater BMP on the OSI site to accommodate for rates and water quality from two projects: (1) Arrowhead Drive Turn Lane Expansion and the future (2) Open Systems International, Inc. (OSI) Expansion. The projects are being reviewed as a planned development being treated by the proposed basin. Updated plans were received April 1, 2022, and supplemental updates were received on April 14, 2022. This project received approval at the Commission's May Meeting with three conditions: final escrow determination, payment of the additional floodplain alteration review fee of \$1,350, and plans for the OSI, Inc. parking expansion are developed, a Commission application for erosion control (Rule E) will be necessary, assuming the stormwater management is consistent with this approval. An erosion control and grading plan for the OSI, Inc. site should include no more than 1.56 acres of impervious surface and all impervious surfaces shall be directed to the proposed stormwater BMP.

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ag. 2022-012 Graco Building 2, Dayton. Graco purchased this property that was the Liberty Industrial Center, approved by the Commission under project 2015-011. Graco is proposing to replat this site and construct a 515,400 square foot distribution center. Additionally, mass grading on the remaining portion of Outlot H, and Outlots A and B will occur to accommodate two future buildings, regional ponding, and the construction of French Lake Road West. In total, 74 acres will be graded. The Commission's review covers Rules D and E on the 74 acres being graded for this project. The site plan proposes to encroach into an existing conservation and preservation easement approved by the Commission for project 2015-011. *At the July 2022 meeting the Commission reviewed this project and approved site plans for the area west of French Lake Road, contingent upon 1) final wetland buffer monumentation meeting the Commission's requirements, 2) an operation and maintenance agreement approved by the City that implement conditions that bind current and future owners of the project shall be recorded on this property and 3) the escrow balance must be reconciled to the satisfaction of the Commission Administrator. The areas east of east of French Lake Road were tabled subject to the applicant providing a 60-day extension to MN Statute 15.99 deadline to September 21, 2022. Said extension was granted by the applicant on July 21, 2022.*

ah. 2022-013 Dayton Industrial Site, Dayton. This project is a 25.04 acre site located on the north side of County Road 81 between Brockton Lane and Dayton Parkway. The applicant is proposing to construct a 334,750 square foot industrial building with associated parking for passenger vehicles and tractor trailers. Construction of an extension of Troy Lane Extension from its current cul-de-sac terminus continuing eastward to a future intersection with West French Lake Road is also planned, but will be permitted separately by the City. The proposed project will create 17 acres of new impervious, disturbing 30 acres. The area of the two existing parcels is 25.04 with 0.44 acres of existing impervious. Staff received the signed application March 21, 2022. Staff completed an initial review and requested additional documents from the applicant. They were received March 29, 2022. At their May 11, 2022 meeting the Commission approved this project with eight conditions.

ai. 2022-014 Aster Mill, Rogers. This project is a 79.4-acre development bound by 129th Avenue North to the north, single family homes to the east and west, and a mix of woods and farmland to the south. The applicant is proposing 169 single-family home lots, 77 townhome lots, and private and public roads. The Commission review covers Rules D, E, G and I. A complete plan was received March 25, 2022, and initial comments were sent to the applicant on April 14, 2022. Updated plans and resubmittals were received April 28, 2022. The project meets the Commissions' standards and was approved at the Commission's June meeting conditioned on (1) determination of the escrow fee balance; and (2) receipt of an Operations and Maintenance Plan acceptable to the City and the Commission within 90 days of the plat being recorded for all stormwater BMPs on the site that will not be operated and maintained by the City.

aj. 2022-015 County Road 47 Phase 1 Reconstruction., Plymouth. Hennepin County and the City of Plymouth are proposing to reconstruct approximately four miles of County Road (CR) 47 over the next few years. Phase 1 of the project extends from CSAH 101 to approximately 300 feet east of Lawndale Lane North. Improvements include reconstruction of CR 47 into a two-lane urban roadway, new trails, utility updates, and stormwater management BMPs. Commission review covered Rules D, E, and H and this project was approved at the Commission's June meeting pending reconciliation of the escrow fee.

ak. 2022-016 Rogers Activity Center. Redevelopment and additions to the Rogers Municipal Complex are proposed at 14160 James Road. The project includes site clearing, demolition of the existing asphalt pavement, and grading for a future turf and ice rink facility. The Commission review covered Rules D, E, G and I. At their May 11, 2022 meeting the Commission approved this project with five conditions.

al. 2022-017 City Center Drive, Corcoran. This site is approximately 30-acres, adjacent to and east of CR 116. Corcoran is proposing to provide infrastructure and a regional stormwater system for the ultimate development of this area. This plan proposes to grade and construct City Center Drive, 79th Place, CR 116 turn Lanes, the proposed St. Therese Senior housing facility and a linear city park and trail along CR 116. At the June meeting the Commission approved this project with the four conditions cited in Staff's findings dated May 31, 2022.

am. 2022-018 Big Woods, Rogers. This site is approximately 72.1 acres, with 61.0 acres being disturbed. The project will create 207 residential lots and include 23.6 acres of impervious surface after development. The Commission review covers Rules D, E, and I. A complete application was received April 15, 2022. Initial comments were sent to the applicant on April 25, 2022, and resubmittals were received on April 28, 2022. The project meets Commission standards and was approved at the June meeting conditioned on: (1) reconciliation of the escrow fee balance; (2) receipt of a wetland alteration plan approved by the WCA LGU [the City]; and (3) approval of an operations and maintenance plan approved by the City.

an. 2022-019 Grass Lake Preserve, Dayton. This is two parcels that are 38.45 acres in size, located east of Brockton Road (CR 13) approximately halfway between North and South Diamond Lake Roads. The applicant is proposing 120 twin homes and 6 single family detached homes with corresponding utilities, and streets. *The Commission approved this project at their June 2022 meeting with the following conditions. (1) reconciliation of the escrow fee balance; (2) final SWPPP plan submittal prior to grading; (3) receipt of a wetland alteration plan approved by the WCA LGU [the City] and MNDNR {if applicable}; (4) additional sump manholes at CBMHs 205 and 210; and (5) City approval of a long-term operation and maintenance plan on the stormwater facilities.*

ao. 2022-020 Skye Meadows Extension, Rogers. This is a development on a 45.3 acre parcel which will disturb 44.1 acres and result in 14.1 acres of impervious surface. The impervious surface includes 129 lots and associated streets. The Commission review covered Rules D, E, G, and I. A complete application was received on April 21, 2022. The project was approved at the Commission's June meeting with the following conditions: (1) final escrow balance reconciliation; (2) approved wetland mitigation plan for the proposed disturbance of Wetlands A and B; and (3) an operation and maintenance plan approved by the City.

ap. 2022-022 Cook Lake Highlands, Corcoran/Maple Grove. This is a 53.58-acre development comprised of four existing parcels in both Corcoran and Maple Grove. The western parcel in Corcoran totaling 27.3 acres is under consideration for this project review. The adjacent Cook Lake Edgewater, 2021-031 was previously approved in October 2021. The site is located along the north side of County Road 10 (Bass Lake Road) just west of the County Road 101 crossing and southwest of Cook Lake. The applicant is proposing to create a detached residential rental community with 59 units creating 10.4 acres of new impervious areas in Maple Grove, and 8.1 acres of new impervious in Corcoran (a total of 18.5 acres). The applicant reports incorporation of some impervious that is planned for the future acres of new impervious areas in Maple Grove, and 8.1 acres of new impervious in Corcoran (a total of 18.5 acres). The applicant reports incorporation of some impervious that is planned for the future expansion of County Road 10 as well. This phase of the project will disturb 18.6 acres. A stormwater pond with bio-filtration bench and a smaller filtration basin are proposed for the Corcoran portion of the site. At the June meeting Staff recommended approval of this project with six conditions. The Commission granted approval of the conditions cited in Staff findings dated June 1, 2022.

aq. 2022-023 Asguard, Rogers. The proposed redevelopment will consist of a new residential and commercial building containing 71 residential units, retail area with underground parking, a restaurant, and a fuel facility. The project will be located at the intersection of Rogers Drive and 144th Avenue North on a 16.2-

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acre parcel and will result in 5.52 acres of impervious surface. The Commission review covers Rules D and E. *The Commission approved this project with three conditions at the July, 2022 meeting: (1) fee escrow reconciliation, (2) receipt of an Operations and Maintenance Plan acceptable to the City and the Commission within 90 days of the plat being recorded for all stormwater BMPs on the site that will not be operated and maintained by the City; and (3) provision of a detail for the bioinfiltration media and for the southeast bioinfiltration basin to confirm 2-foot separation from groundwater table for SE bioinfiltration basin or a detail showing an impermeable liner.*

ar. 2022-024 Bridge No. 27J70 on 101st Avenue, Maple Grove. The City of Maple Grove intends to replace the existing double timber box culvert on the South Fork of Rush Creek within the previously permitted Evanswood project (#2021-050). The applicant indicates the existing timber box culvert is not structurally sound. The proposed replacement is a single 9x16' reinforced concrete pipe (RCP) box culvert as the final condition with one foot of inside substrate to support habitat connectivity. Delays to sourcing the RCP Box culvert require an interim crossing to support construction in the area. This permit also covers the interim installation. The project disturbs 1.33 acres with no existing impervious and adds 0.014 acres of new impervious. The interim crossing will consist of three buried round 48" CMPs and a temporary roadway as overflow. The planned installation of the temporary crossing is scheduled for June 2022; the contractor estimates the final replacement should be installed in October 2022. Use of the interim crossing will be limited to contractors prior to the final install of the 16'x9' box culvert. At their June 2022 meeting the Commissioners approved Staff's recommendations of approval in their findings dated May 27, 2022, and revised May 31, 2022, (1) reconciliation of escrow fees; (2) applicant must meet all DNR Requirements for both interim and final proposed condition and share the selected measure for dewatering and diversion with Commission staff; (3) bring all culvert inverts and outlets and flow line elevations on drawings into alignment with ONE set of numbers which align with the model prior to construction, submit revised drawings to the DNR and the Commission prior to construction; and (4) the applicant must meet all City Requirements.

as. 2022-025 Harvest View, Rogers. A parcel that is 47.0-acres that is bounded to the north by existing single family development, to the east by the single family development Sky Meadows (Phase 2), to the south by Territorial Road (C.S.A.H. No. 116), and to the west by the single family development Big Woods in Rogers. Application was received on May 9, 2022, and the most recent resubmittals were received on June 30. These resubmittals are currently under review by Staff. No recommendation is available at this time.

at. 2022-026 Rogers Archway Building, Rogers. The project site is located between 129th Avenue North and Territorial Road, west of Main Street and east of Elm Parkway. The proposed development includes construction of 169 single family home lots, 77 townhome lots, and private and public roads. Application was received on May 10, 2022, and an incomplete application correspondence was sent on May 19, 2022. No recommendation is available at this time.

au. 2022-027 Edison at Maple Grove Apartments, Maple Grove. The project is located on Garland Avenue near the intersection of I-94 and Maple Grove Parkway. The project consists of development of a couple multi-story apartment buildings along with amenities and the associated streets and utility infrastructure. The application was received on May 16, 2022, and the latest updates for the project were provided to Staff on July 6, 2022. *The Commission approved this project at their July meeting with the following conditions: 1.) Escrow fee reconciliation, 2) The applicant shall provide a Stormwater Maintenance Agreement acceptable to the city and the ECWMC within 90 days after the plat is recorded for all stormwater BMP's on the site that will not be operated and maintained by the city, 3.) Add a phosphorous sorbing amendment to the biofiltration media to meet water quality standards and results.*

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av. 2022-028 Elsie Stephens Park, Dayton. This is existing park property (~20 acres) located about a mile north of the junction of County Roads 144 (N. Diamond Lake Road) and 12 (Dayton River Road). The project proposes to construct two entrance roads off CR 12, 1,300 feet of park roadways with a parking area and loop road, and a trail system to connect existing and future trails. *Site revisions received July 5, 2022, were reviewed by the Commission at their July 2022 meeting and approved contingent upon: 1) pre- and post-construction soil analysis on each infiltration basin to determine that infiltration rates meet or exceed design assumptions; 2) erosion and sediment control meeting the Commission's requirements and approved by Staff; and 3) escrow fee reconciliation.*

aw. 2022-029 Hayden Hills Park, Dayton. This is an existing 6.5-acre vacant park property located in the Hayden Hills Development about ½ mile south of Dayton City Hall near Deerwood Lane at 132nd Avenue. The city proposes to grade and construct a baseball field, open play areas, ice skating area, a basketball court, pickleball court, playground, putting green and connection trails into the existing trail system. This site's stormwater (Rule D) was designed into the Hayden Hills development that was approved by the Commission under project 2018-008. Staff reviewed this plan for Erosion and Sediment Control Rule E only. Site plans conformed to Rule E and were administratively approved. Except for the escrow reconciliation, no further action is necessary.

ax. 2022-030 Garages Too Corcoran. The project proposes building and site improvements for a self-storage facility just north of Highway 55 near Rolling Hills Road. The site is within the physical boundary of the Pioneer-Sarah Creek watershed, but is in Corcoran, which is within the legal boundary of the Elm Creek watershed. *Staff recommends approval of the project contingent upon (1) an operation and maintenance agreement, recorded on this property and approved by the city, that implement conditions that bind current and future owners of the project, (2) wetland impacts/exemption request must meet the LGU (Corcoran) requirements; and (3) the escrow balance being reconciled.*

ay. 2022-031 Corcoran II Substation. The project site is located on 2.87 acres at the northeast intersection of Larkin Road and CR 116. Hennepin County PID 2511923230001. It is a 38.91-acre parcel that is proposed to be subdivided into one lot and two outlots. Block 1, Lot 1 will be the parcel where Wright Hennepin Cooperative Electric Association will place their substation. The remaining areas will be utilized for future development and for ROW along CR 116. *At their July 2022 meeting the Commission approved Staff's recommends with three conditions. 1) a stormwater operation and maintenance agreement acceptable to Corcoran and the Commission must be recorded by the landowner on this property; 2) the 48-hour drawdown (4,704 cubic feet) on the stormwater basin must be verified post-construction; and 3) escrow fee reconciliation.*

az. 2022-032 Elm Creek Stream Restoration Phase 5, Champlin. The project is located within the Elm Creek Park Reserve, just downstream of Hayden Lake, and just upstream of Elm Creek Crossing. The proposed project scope will include grading of the project area for residential lots, construction of various residential streets and sidewalks and supporting underground utilities, driveways, and stormwater management. *The Commission approved this project at their July 2022 meeting pending fee escrow reconciliation.*

ba. 2022-033 Pet Suites, Maple Grove. The project site is located on a vacant lot just north of the County Road 30 and Upland Lane N intersection. The proposed project will include the construction of a building and parking lot along with necessary utilities and stormwater management for a canine care facility. The project triggers Rules D and E. Staff is currently awaiting project updates. No recommendation is available at this time.

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bb. 2022-034 CSAH 101 Improvements, Maple Grove. The project is located on CSAH 101 between Walnut Grove Way/73rd Avenue and approximately 83rd Avenue. The project consists of a reconstruction of CSAH 101 to include turn lanes, conversion of rural to urban section, intersection improvements, and addition of a multi-use trail. The project triggers Rules D and E. *In their findings dated August 2, 2022, Staff recommends approval pending escrow fee reconciliation.*

bc. 2022-035 Rush Hallow, Maple Grove. The project is located on 161.5 acres and will result in 49.01 acres of impervious surface. The project triggers Rules D, E and I. Staff is currently awaiting project updates. No recommendation is available at this time.

bd. 2022-036 West French Lake Road Improvements, Dayton. *This is a one mile stretch of W. French Lake Road between the Cubes at French Lake and the Graco Building 2 developments. It is proposed to be reconstructed from a gravel rural road into an urban road section. The work will disturb 12 acres and create 2.5 acres of new impervious areas. Initial review and comments were provided to the City on July 17. No revisions or updates to Staff's comments and concerns have been received as of this update.*

be. 2022-037 CSAH 13 CR 203 Culvert Replacement, Rogers. *This project is for the replacement of six (6) along CSAH 13 and CR 203. The project triggers Rule E, Erosion and Sediment Control Rule. All culvert replacements are in-kind. No changes are proposed to inverts, pipe size, or material. This project was approved administratively, pending escrow fee reconciliation.*

bf. 2022-038 Tavera (North Phase), Corcoran. *Lennar Homes is proposing to develop the site into a 244-unit housing development, with 110 single family detached lots and 134 attached townhouse units. The project is a second phase of the overall larger 548-unit Tavera housing development. The total site area is 272 acres. Phase 2 will encompass approximately 175 acres, disturb 110 acres, and create 38.6 acres of new impervious area. In their findings dated August 3, 2022, Staff recommends approval, contingent upon, (1) Operation and maintenance plans and agreement must be provided to the Commission for their review and approval. These plans must include the irrigation system. (2) Irrigation system pump and augmentation information is provided and approved by Staff and (3) the escrow balance must be reconciled to the satisfaction of the Commission Administrator.*

bg. 2022-039 Garland Commons, Maple Grove. *The project consists of a multi-family building with associated parking, landscaping, utility and stormwater best management practices. The project will disturb 4.8 acres of a 6.2 acre site and result in 1.8 acres of new impervious surface. The project triggers Rules D, E, and I. The initial submittal is still under review by Staff. No further update or recommendation is available at this time.*

FINAL RECORDINGS OR OTHER DOCUMENTATION/FOLLOW-UP ARE DUE ON THE FOLLOWING PROJECTS:

ca. 2014-015 Rogers Drive Extension, Rogers. This project involves improvements along Rogers Drive from Vevea Lane to Brockton Lane. 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.

cb. 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

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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. *On November 2, 2021, Derek Asche reported there is no update for this project.*

cc. 2016-005W Ravinia Wetland Replacement Plan, Corcoran. In December 2016, the Commission approved Staff's recommendations on this wetland replacement plan. Barr Engineering is providing monitoring to ensure the replacement meets the performance standards of the approved plans. Annual reports were submitted to the US Army Corps of Engineers (USACE) in February 2019, February 2020, and March 2021. As of March 2021, wetlands and buffers are looking good but will need continued vegetation management in 2021 to get rid of invasive species (mostly cattail). Hydrology is good in both the restoration and creation areas. *Cattail and Reed canary grass reemerged during the 2021 growing season and will likely need another year of aggressive maintenance in 2022. The 2021 monitoring report will be submitted to the USACE in March 2022 with recommendations for maintenance.*

cd. 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.

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

On February 7, 2019, Jason Quisberg provided the following information: The 1st Addition was scaled back from what was proposed; associated construction activity is significantly completed. Extension of trunk utilities through Staff 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).

On March 4, 2021, Nico Cantarero reported that Brayburn Trails is continuing to construct homes. The development is through their 6th addition with approximately 2/3 of the development final platted. 117th Avenue improvements have been constructed and the development continues to build infrastructure and homes.

cf. 2018-046 Graco Expansion, Rogers. This project is the expansion of an existing building. The site is located in an area that has regional ponding provided for rate control purposes, but needs to account for water quality and abstraction requirements on-site prior to discharging offsite as part of the improvements. The Commission granted conditional approval at their October 2018 meeting. Conditions of approval were to (1) submit a SWPPP plan meeting requirements, (2) clarify maintenance responsibilities for the iron enhanced sand filter, and (3) 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.

cg. 2018-048 Faithbrook Church, Phase 2, Dayton. This project is an expansion of an existing church located northeast of the intersection of Fernbrook Lane and Elm Creek Road. The Commission approved this project in November 2018 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, likely due to funding needs of the applicant. On March 4, 2021, Nico Cantarero reported that the outlet to the church has been constructed. The church still has plans for a Phase 2 expansion, but it has not been initiated to date.

ch. 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.

ci. 2019-026 Interstate Power Systems, Rogers. This is a 10-acre site to construct a 1-acre building for a mechanical shop and 6 acres of parking and driveways along County Road 81. It triggered review of Rule D, E, G, and I. This item was approved by the Commission at their November 2019 meeting, contingent upon documentation of existing conditions pollutant loading and a recorded O&M plan for onsite BMPs. The applicant provided the pollutant loading data in November 2019. Commission is still awaiting the O&M plan.

cj. 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 O&M plan approved by the City and Commission and recorded on the title for this property, with a copy provided to the Commission. *The O&M agreement was received in the Commission office on July 28, 2022. This item will be removed from the report.*

ck. 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 consists of 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 was for compliance with Rules D, E, G, and I. At their October 2020 meeting the Commission approved Phase I grading on the north 14-acre area conditioned that: a) the applicant accepts any and all risks for any changes required to obtain final approval by the Commission and b) that the City of Dayton grants approvals for said grading, and to deny the remainder of the application unless the applicant extends the review deadline beyond the current October 21, 2020, deadline. The applicant extended the deadline to November 30, 2020. Updated site plans received November 16, 2020, met the contingencies of the Commission approval with the exception of the post development infiltration basin percolation test requirements. At their December meeting the Commission approved the updated plans contingent upon post-development percolation tests being provided on infiltration basins to demonstrate the constructed infiltration rate meets or exceeds the design infiltration rates.

On March 4, 2021, Nico Cantarero reported that Lone Gardens constructed their 1st addition of approximately 30 homes along the northern portion of the site. The developer has indicated plans to grade the remainder of the site and construct the 2nd addition of the development in 2021 which would include the second access to the site onto North Diamond Lake Road.

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

cm. 2020-017 Meadow View Townhomes, Medina. This is a 22-acre site located south of Meander Road and north of Highway 55. Lennar Homes is proposing to build 125 townhomes with their necessary infrastructure on this site. A complete application was received May 29, 2020. The plans call for 7.64 acres of new impervious areas. The Commission's review was for conformance to Rules D, E, F, G, and I. At their October meeting, the Commission approved Staff's finding dated September 30, 2020, contingent upon (1) The mean (average) depth on the west wet detention pond must be 4.0' or deeper; (2) Buffer strip monumentation and vegetation maintenance plans must conform

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to the Commission's requirements; (3) An operation and maintenance agreement of the stormwater ponds and irrigation system must be approved by the City and the Commission. The agreement must be recorded on the property title with a copy of the recorded document provided to the Commission; and (4) Erosion and sediment controls must conform to Commission requirements. Since the approval, the City of Medina has requested the applicant provide abstraction by irrigation only, thus eliminating one filter basin. Staff reviewed the changes and found the updates to be compliant with the Commission's original approvals for stormwater management and administratively approved the plans contingent upon item (3) above and added the condition that design information on the irrigation pump and augmentation water source must be provided within six months of this approval. On November 2, 2021, Dusty Finke provided the Commission with a copy of the recorded O&M agreement.

cn. 2020-023 Ziegler, Dayton. This is an existing 4.73-acre commercial parcel located on Territorial Road near Holly Lane close to the Maple Grove/Dayton border. Currently the property consists of a building with bituminous drive and parking areas and a large gravel storage yard. The applicant is proposing to utilize the existing building, construct an additional commercial building, expand the bituminous parking lot, and add gravel lots for merchandise display and storage, triggering Commission Rules D, E, G, and I. The Commission approved this project at their August 2020 meeting contingent upon wetland permitting being obtained and an Operation & Maintenance agreement being recorded on the land title. The wetland permit has been approved, but the O&M plan has yet to be received. On March 4, 2021, Nico Cantarero reported that Ziegler plans to construct their site improvements in 2021.

co. 2020-032 Enclave Rogers – Commerce Boulevard., Rogers. This project would create an apartment complex on a 3.3-acre site. The existing condition is undeveloped. The project will disturb the entire site and create 2.15 acres of impervious surface. The applicant is proposing an iron enhanced sand filter to meet Total Phosphorus removal requirements. The site is within two of the three outlots created as part of the adjacent former Lowe's development. The application was reviewed for Rules D and E. Staff granted administrative approval for grading contingent on applicant accepting risk for changes required for final approval and on approval from the City for grading activities. In their findings dated December 2, 2020, Staff recommended approval with those conditions, as well as submission of an O&M agreement for stormwater features and with minor updates to the hydrology report and the SWPPP. The Commission approved Staff recommendations at their December 9, 2020, meeting.

cp. 2020-033 Weston Woods, Medina. This project would create 150 residential units on a 135-acre undeveloped site. The project will disturb 49.2 acres and create 17.49 acres of impervious area. The Commission approved this project at their March 2021 meeting with four contingencies: a) Wetland replacement plans must be approved by the City of Medina (LGU), MN DNR and USACE prior to impacts, b) Provide quantification of the change in flood storage capacity for the one-percent annual chance flood event due to the proposed project, c) Provide documentation that changes in flood elevation and loss of floodplain storage have been avoided, minimized, and/or mitigated to the extent practicable. Demonstrate that changes in flood elevation will not cause high water or aggravate flooding on other land and, d) An O&M agreement for stormwater facilities, including irrigation pumping system components and augmentation wells system, must be approved by the City and the Commission and recorded within 90-days after final plat approval on the title to this property. A copy of the recorded agreements must be provided to the Commission.

cq. 2020-036 Balsam Pointe, Dayton. This project will create 98 residential units on a 10-acre site near the intersection of Diamond Lake Road South and Dayton Road. The existing condition is undeveloped. The project will disturb the entire site and create 5.3 acres of new impervious. The application was reviewed for Rules D and E. The Commission approved Staff's recommendations at their January 13, 2021, meeting contingent upon an O&M agreement meeting the Commission's standards being recorded on the land title.

cr. 2021-007 Birchwood 2nd Addition, Rogers. This project is east of CR13 (Brockton Lane) approximately 1/2 mile south of the intersection of CR 144 (141st Avenue North) and CR13. The applicant is proposing to develop the site into 30 single-family residential lots. The site drains south and east into Grass Lake. This work will disturb 10 acres and create 4.0 acres of new impervious area. At their April 2021 meeting the Commission approved this project contingent upon the final SWPPP being submitted prior to grading and receipt of any outstanding project review fees.

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

cs. 2021-016 Territorial Lofts, Rogers. This is a 5.39-acre site on Territorial Road, adjacent to the Laurel Creek development. The project would construct a 75-unit apartment building, underground parking, a detached garage, maintenance facilities, and access road, creating 2.397 acres of total impervious (1.86 acres net new impervious) and disturbing 5.2 acres. The existing site is two single-family residential homes. The site proposes to use stormwater reuse with an irrigation system to meet abstraction requirements due to low infiltration capacity soils. The project was reviewed for Rules D, E, G, and I. The project was approved by the Commission at its July 2021 meeting contingent upon receipt of outstanding project review fees and a stormwater maintenance agreement being put in place between the owner and the city with terms acceptable to the Commission. *The outstanding fees have been received.*

ct. 2021-020 Crew Carwash, Maple Grove. This project would reconstruct an existing bank building and parking lot on a 1.80-acre parcel into a carwash. The site is located southwest of the intersection of Weaver Lake Road and Elm Creek Boulevard with access from Grove Drive. The disturbance is 1.52 acres, the existing impervious is 1.07 acres, and the proposed impervious is 1.17 acres. Runoff from this site flows into a regional pond on Arbor Lakes Parkway, which ultimately discharges to Rice Lake. The City has stated that the regional pond meets rate control and water quality treatment for the site. The applicant is proposing to use soil amendments to meet the Commission's volume rules. The Commission approved the project at its June meeting contingent on a maintenance agreement being filed with the City with terms agreeable to the Commission. The surplus escrow will be returned to the applicant.

cu. 2021-021 Territorial Triangle, Dayton. This site is in the easterly triangle Territorial Road and CR 81 intersection near the border of Dayton and Maple Grove. The applicant is proposing to subdivide the 14+acre parcel into 30 rowhome units and 56 townhome units. Two ponding basins are proposed for stormwater management. This work will disturb approximately 10 acres and create 5.7 acres of new impervious areas. The Commission approved Staff's recommendations cited in their findings dated July 22, 2021 contingent upon (a) final application escrow fee balance determination by the Commission administrator and (b) provision of a Stormwater Maintenance Agreement for the irrigation system that is acceptable to the city and the Commission within 90 days after the plat is recorded. The surplus escrow will be returned to the applicant.

cv. 2021-023 Maple Grove MOB, Maple Grove. This project would construct a Medical Office Building and associated parking on an undeveloped parcel. The site is located on the southeastern corner of the intersection of 105th Avenue North and Niagara Lane, immediately north of the Highway 610 and Maple Grove Parkway interchange. The project was reviewed for Rules D and E. The Commission approved this project at its October 2021 meeting contingent on: receipt of deficit fee escrows and an operation and maintenance agreement with the City. The O&M Agreement has been received.

cw. 2021-024 Riverwalk, Dayton. This site is south of CR 12 (Dayton River Road) and west of River Hills Parkway approximately 1/4 mile north of CR 144 (Diamond Lake Road). The applicant proposes to construct a new single family residential subdivision with 242 lots including one amenity lot and a city well site. Site development will include removal of an existing home site, grading 94 acres, and installation of municipal sewer and water, streets, and stormwater systems. The Commission approved Staff's recommendations in their findings dated August 11, 2021, at their August 2021 meeting contingent upon four conditions. The surplus escrow will be returned to the applicant.

cx. 2021-027 Xcel Energy Elm Creek Substation, Maple Grove. Xcel Energy is proposing to expand an existing electrical substation between Maple Grove Parkway and Fernbrook Lane near the Highway 610 expansion. The expansion will occur within the existing 17.09-acre parcel. The project was reviewed for Rules D and E. The Commission approved this project at its October 2021 meeting contingent on receipt of deficit fee escrows and an O&M agreement with the City. *The O&M agreement was received in the Commission office on July 28, 2022.*

cy. 2021-035 Mister Carwash, Rogers. The project includes redevelopment of an existing, vacant Staff restaurant building, parking lot, and drive-through into a new carwash facility at 21421 South Diamond Lake Road. The redevelopment is anticipated to decrease the impervious area by approximately 0.3 acres at the project site and add an underground filtration basin with underdrain. The project was reviewed for Rules D and E. The Commission approved this project at its December 2021 meeting with four contingencies: 1) receipt of deficit escrows, 2) a Stormwater Maintenance

Agreement, including irrigation system, being entered with the City, 3) A wetland replacement plan approved by the LGU and the TEP, and 4) the buffer plan contingent upon approval of the wetland replacement plan.

cz. 2021-036 D&D Service, Corcoran. The D&D Service development is proposed at the southeast corner of the intersection of County Roads 10 and 19 on a 16.54-acre parcel. The proposed project will include a large warehouse and office buildings along with parking and associated facilities. The existing site is a single farmhouse and surrounding agricultural land. The project was reviewed for Rules D, E, G, and I. Findings updated October 5, 2021, wherein Staff recommended contingent approval with five conditions, were approved at the October meeting. *On July 26, 2022, Kevin Mattson confirmed that the O&M agreement has been received and recorded.*

da. 2021-040 NAPA Auto Store, Corcoran. This project is located at the northwest intersection of CR 116 and 75th Avenue on the old Liquor Store parcel. The applicant proposes to demolish the current building and adjoining parking areas and construct a 12,800 SF NAPA Auto building, parking lot and associated utilities. An extra 3,600 feet of building area is proposed for future expansion and is included within the stormwater management design for this site. The Commission approved this project at their October 2021 meeting contingent upon return of surplus project escrows and a stormwater maintenance agreement being put in place between the owner and the City per Commission requirements. *On July 26, 2022, Kevin Mattson confirmed that the O&M agreement has been received and recorded.*

db. 2021-041 Carlson Ridge, Plymouth. This is an existing 4.82-acre residential lot located between Vagabond and Troy Lanes just north of 56th Avenue North. The property will be subdivided into 13 single-family lots. The existing residence will remain, but portions of the driveway and an outbuilding will be demolished. The Commission approved this project at their October 2021 meeting contingent upon, (1) final escrow balance determination when final unconditional approval is granted, (2) wetland impacts cannot occur until appropriate LGU and WCA approvals, and (3) long term operation and maintenance of the stormwater system is determined. The City of Plymouth has agreed to the long-term operation and maintenance of the filter basin so Items 1 and 2 are the only outstanding conditions as of this update.

HENNEPIN COUNTY

MINNESOTA

DATE: August 3, 2022

TO: Elm Creek Watershed Management Commission (ECWMC)

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

RE: July ECWMC Updates

Project / Program Updates

13861 129th Ave N., Dayton

Hennepin County staff inspected completed manure bunker slab and walls that were completed. Current construction meets agreed upon standards. No issues with current construction were found and reimbursement for work done up to this point is underway.

Houston Engineering has finalized a sub-contract agreement with Sandman engineering to provide the final roof structure. Details of current construction were provided by Hennepin County staff so the roof structure drawings could be completed. Landowner is also requesting that a screen or windbreak be installed at the entrance of the buffer to ensure that rain and snow do not enter the structure during inclement weather.

9310 Bechtold Road

Hennepin County Staff surveyed property and found more evidence of tile blowouts. Staff also discussed drainage issues and historical tile locations with neighbor to the property. Survey data is currently being routed to Houston engineering for further analysis.

Potential viable projects include manure storage bunker, settling basin near equestrian practice ring, and small series of WASCObS with crossings for landowners. Currently discussing practice options with landowners to better understand what work can be completed and what a potential timeline would be.

Hennepin County Environment and Energy Programming

New resources available on providing habitat for birds and bats

Learn how to provide habitat for birds and bats by downloading or ordering three new brochures. These resources will help you learn how to:

- [Provide habitat and build a bird house \(PDF\)](#)
- [Build and maintain bat houses \(PDF\)](#)
- [Provide food and water sources for backyard bird populations \(PDF\)](#).



Download or order free print copies from our [environmental resources order form](#). These resources and many more are available for free to community groups, cities, schools, and residents in Hennepin County.

To: Elm Creek WMO Commissioners

From: Diane Spector

Date: August 3, 2022

Subject: Clean Water Fund Grant Applications

**Recommended
Commission Action**

Comment and authorize submittal of applications with any further revisions.

The Clean Water Fund grant applications are due August 22, 2022. The Commission authorized completion of two applications, one in partnership with the City of Maple Grove for the upcoming South Fork Rush Creek Stream Restoration project, and a second in partnership with Hennepin County and Three Rivers Park District to stabilize two ravines along CSAH 12 (Dayton Road). Both these projects are on the Commission's CIP, South Fork in 2022 and Ravine Stabilization I 2023.

Attached is a draft of the South Fork Rush Creek application for your review and comment. It has been reviewed by the City of Maple Grove. The Ravine Stabilization application is still in progress and will be forwarded to you prior to the August 10, 2022 meeting.

The final amount to be applied for hasn't yet been determined, but the South Fork estimated project cost is \$3.25 million, with the Commission's contribution at 25% or \$812,500. The grant request will be in the \$600,000 - \$750,000 range.

The CSAH 12 Ravine Stabilization project cost was estimated at \$382,000 when it was submitted to the CIP, but subsequent design work has increased that estimate to just over \$800,000, not including construction contingency and engineering. County and Three Rivers contributions would likely cover about \$600,000, and the Commission's CIP cost share based on the original estimate would be \$95,500. The grant request will be in the \$150,000 – 200,000 range.

Both these applications are still developing, and we will provide updated information at the August 10 meeting.

Clean Water Fund FY23 Projects and Practices Questions

Responses limited to 2000 characters except where noted.

South Fork Rush Creek Restoration

Project Abstract: Succinctly describe what you are trying to achieve and how you intend to achieve those results, including the type and quantity of projects and/or practices included in the application budget and anticipated outcomes.

This project will stabilize and restore 7,600 linear feet of the South Fork of Rush Creek, in the City of Maple Grove in the Elm Creek watershed in Hennepin County. This segment of the South Fork (AUID 07010206-732) is designated an Impaired Water for excess *E. coli* and chloride concentrations and impaired fish and macroinvertebrate communities. The project would extend from 101st Avenue North to its confluence with Rush Creek, which is also an Impaired Water. The proposed restoration project would reduce annual sediment load transported downstream by an estimated 410 tons per year and total phosphorus load by 424 pounds per year as well as improve stream function, habitat, and bank stability. The Elm Creek Watershed TMDL requires load reductions of total phosphorus to this segment that vary from 61% to 85% depending on flow regime. The TMDL also requires other non-numeric actions to address biotic stressors such as altered hydrology and altered habitat, and design features to address those stressors are included in this project. The project will also create a corridor with wide buffers to provide protected wildlife passage as the area around it rapidly converts from agriculture to residential and mixed use development. This project may also provide significant functional lift and reestablishment of connections with historic floodplain. A public trail crossing is planned along this stretch providing a significant education opportunity. A portion of the project area is located within a Hennepin County Natural Resource Corridor. The City of Maple Grove is committed to the long term success of such a significant opportunity to improve the environment.

Proposed Measurable Outcomes: In 250 characters or less, state the proposed measurable outcomes of the project. (250 characters)

Sediment load reduction: 410 tons/year

TP reduction: 424 pounds/year

Stabilized banks, in stream habitat improvements, native buffer

Does your organization have any active CWF competitive grants? If so, specify FY and percentage spent. Also, explain your organization's capacity (including available FTEs or contracted resources) to effectively implement additional Clean Water Fund grant dollars.

The Elm Creek WMC has no active CWF grants.

Water Resource: Identify the water resource the application is targeting for water quality protection or restoration.

South Fork Rush Creek (AUID 07010206-732)

Prioritization (Relationship to Plan): Question 1. (17 points): (A) Describe why the water resource was identified in the plan as a priority resource. For the proposed project, identify the specific water

management plan reference by plan organization (if different from the applicant), plan title, section, and page number.

The primary focus of the Commission's Third Generation Plan is addressing Impaired Waters, including the South Fork. Of the five Commission priorities for 2015-2024, Priority 1 is "Begin implementing priority projects and actions in 2015, providing cost-share to member cities to undertake projects to achieve WRAPS lake and stream goals" (p. 4-4). The water quality policy statement states that: "The Elm Creek Watershed TMDL report and the WRAPS plan establish water quality improvement and protection goals for several lakes and the major streams in the watershed. The Third Generation goals for water quality are focused on making progress to improve the lakes and streams in the watershed ..." (p. 4-7) The Commission also included a line item in its CIP: "*Other High Priority Stream Restoration Projects*. Additional stream restoration projects addressing water quality or biotic impairments on Elm, Diamond, South Fork Rush, and North Fork Rush Creeks or their tributaries may be identified through the stream segment prioritization process or be submitted by member cities for consideration" and goes on to identify several potential projects, including this reach of South Fork Rush Creek north of 101st Avenue N. (pp. Appendix G-3 and G-4). On May 12, 2022, the Commission adopted a Minor Plan Amendment formally adding the project to the CIP.

Stream erosion, including on Rush Creek, was also identified as an issue in Maple Grove's Surface Water Management Plan (p 5-2). That Plan establishes a Stream Management goal to "Improve water quality, provide wildlife habitat and protect the resource value of streams" and policies to "identify eroding stream areas, prioritize stabilization projects, and identify funding sources for project implementation" to "restore streams to their natural state when determined necessary and feasible" (p. 6-6). This South Fork Rush Creek project is programmed on the Plan's CIP (Table 7.1) in 2025.

Prioritization (Relationship to Plan): Question 1, continued: (B) In addition to the plan citation, provide a brief narrative description that explains whether this application fully or partially accomplishes the referenced activity.

The proposed project would fully accomplish restoration goals and non-numeric TMDL actions for this reach of the South Fork by reducing the erosion rate to natural background; restoring and enhancing a native buffer; reconnecting to the floodplain; and enhancing in-stream and near-stream habitat. However, it will only partially achieve the numeric TMDL load reduction necessary as it represents only one segment of the 4.2 mile stream and additional restoration actions are necessary upstream and in the watershed. This reach represents the most severely degraded portion of the stream and will provide the most reduction of sediment and phosphorus contributed from streambank erosion.

Prioritization (Relationship to Plan): Question 1, continued: (C) Provide weblinks to all referenced plans.

Elm Creek Third Generation Plan

elmcreekwatershed.org/third-generation-plan.html

Elm Creek Watershed TMDL

pca.state.mn.us/water/mississippi-river-twin-cities-watershed-tmdl-projects

Maple Grove Surface Water Management Plan

<https://www.maplegrovern.gov/documentcenter/view/1668>

Prioritization (Relationship to Plan): Question 2. (3 points): (A) Describe how the resource of concern aligns with at least one of the statewide priorities referenced in the Nonpoint Priority Funding Plan (also

referenced in the "Projects and Practices" section of the RFP). (B) Describe the public benefits resulting from this proposal from both a local and state perspective.

The project aligns with the statewide priority "Restore and protect water resources for public use and public health, including drinking water." Restoring and enhancing South Fork Rush Creek will improve water quality and enhance biotic integrity, as well as provide an opportunity to remove invasive species and enhance upland habitat for pollinators and other wildlife.

This reach of South Fork Rush Creek is located in a rapidly developing area being converted from agricultural uses to residential and mixed use. It runs through a corridor identified in the City's 2040 Comprehensive Plan as the Rush Creek Linear Park with a pedestrian/bike trail, now in development, that is part of a wide network of city and county trails. The public benefits of this project include stabilized streambanks, creation of a native vegetation buffer, enhanced habitat, a reduction in sedimentation and nutrients to improve water quality, additional floodplain storage, and an improved fish and macroinvertebrate community. The native buffer will include pollinator-benefitting species. This project is also an opportunity to enhance the aesthetics of the stream and provide opportunities for the public to learn about, view and enjoy the stream in a safe manner.

Targeting: Question 3. (15 points): Describe the methods used to identify, inventory, and target the root cause (most critical pollution source(s) or threat(s)). Describe any related additional targeting efforts that will be completed prior to installing the projects or practices identified in this proposal.

In 2007 the Commission undertook the Elm Creek Channel Study to update a assessment previously completed in 2000 by the Hennepin Conservation District. The update identified a number of locations on Elm, South Fork Rush, North Fork Rush, and Diamond Creeks experiencing streambank erosion and mass wasting, threatening the structural integrity of the creek channels and contributing to in-stream and downstream water quality issues, including impairments to the biologic communities. Several of these problem areas, mainly on Elm Creek, have been the targets of previous stream projects. The City of Maple Grove in its Surface Water Management Plan evaluated conditions on streams with known erosion issues within its boundaries. In 2021 the city engaged a consultant to complete a detailed Feasibility Study for this reach of South Fork that included Rosgen Level I geomorphic characterization, Level II morphological description, and Level III assessment of stream condition under the Prediction Level Assessment methodology described in Watershed Assessment of River Stability and Sediment Supply (WARSSS). That detailed condition assessment included a Modified Pfankuch Channel Stability evaluation and potential bank erosion was quantified in the BANCS model using the Bank Erosion Hazard Index (BEHI) rating and Near Bank Stress (NBS) rating. Potential stream restoration and stabilization options were identified to protect proposed development and infrastructure, improve stream function and habitat, restore floodplain access, reduce sediment downstream, and create a low-maintenance, aesthetically pleasing design.

Targeting: Question 4. (10 points): How does this proposal fit with complementary work that you and your partners are implementing to achieve the goal(s) for the priority water resource(s) of concern? Describe the comprehensive management approach to this water resource(s) with examples such as: other financial assistance or incentive programs, easements, regulatory enforcement, or community engagement activities that are directly or indirectly related to this proposal.

Maple Grove and other entities that discharge stormwater to the South Fork and other receiving waters has been actively undertaking BMPs and managing stormwater volumes to reduce sediment and

nutrient loading. This includes incorporating BMPs into street and highway projects, enhancing street sweeping, targeting public education and outreach, and other practices to protect and improve water quality. The area directly tributary to this reach over the next several years is poised to redevelop from existing agricultural uses to residential and mixed use development. These parcels currently discharge into the stream with no stormwater treatment. As this redevelopment occurs, the Commission's Rules and Standards and the City's ordinances require stormwater to be treated, runoff volume to be reduced, and runoff rates to be controlled, which will result in significant wasteload reductions to the stream. This will further improve water quality and biotic integrity. Controlling the rate and volume of runoff to the stream will also help maintain stability and increase the useful life of the project.

Measurable Outcomes and Project Impact: Question 5. (10 points): (A) What is the primary pollutant(s) this application specifically addresses? (B) Has a pollutant reduction goal been set (via TMDL or other study) in relation to the pollutant(s) or the water resource that is the subject of this application? If so, please state that goal (as both an annual pollution reduction AND overall percentage reduction, not as an in-stream or in-lake concentration number). (C) If no pollutant reduction goal has been set, describe the water quality trends or risks associated with the water resource or other management goals that have been established. (D) For protection projects, indicate measurable outputs such as acres of protected land, number of potential contaminant sources removed or managed, etc.

This segment of the South Fork (AUID 07010206-732) is designated an Impaired Water for excess *E. coli* and chloride concentrations and impaired fish and macroinvertebrate communities. The Elm Creek Watershed TMDL requires both wasteload and load reductions of total phosphorus to this segment that vary from 61% to 85% depending on flow regime, TP being the surrogate for the periods of low dissolved oxygen that stress the fish community. The estimated load reductions from this project would accomplish about 8% of that numeric target as well as ultimately reduce nutrient loading downstream. The biotic TMDL also requires non-numeric improvements such as reconnecting the incised segments of the stream to its floodplain to help address the altered hydrology stressor and stabilizing the streambanks and enhancing in-stream habitat to address the altered habitat stressor. While this reach is not Impaired by excess TSS, downstream reaches are, and this project would reduce sediment load transported downstream.

Measurable Outcomes and Project Impact: Question 6. (10 points): (A) What portion of the water quality goal will be achieved through this application? Where applicable, identify the annual reduction in pollutant(s) that will be achieved or avoided for the water resource if this project is completed. (B) Describe the effects this application will have on the root cause of the issue it will address (most critical pollution source(s) or threat(s)).

The Elm Creek Watershed TMDL requires both wasteload and load reductions of total phosphorus to this segment that vary from 61% to 85% depending on flow regime, TP being the surrogate for the periods of low dissolved oxygen that stress the fish community. The estimated load reductions from this project would accomplish about 8% of that numeric target, but this project represents only one segment of the 4.2 mile stream and additional restoration actions are necessary upstream and in the watershed. This reach represents the most severely degraded portion of the stream and will provide the most reduction of sediment and phosphorus contributed from streambank erosion. The biotic TMDL also requires non-numeric improvements such as reconnecting the incised segments of the stream to its floodplain to help address the altered hydrology stressor and stabilizing the streambanks and enhancing in-stream habitat to address the altered habitat stressor. This project will fully achieve the non-numeric targets.

Measurable Outcomes and Project Impact: Question 7. (5 points): If the project will have secondary benefits, specifically describe, (quantify if possible), those benefits. Examples: hydrologic benefits, climate resiliency, enhancement of aquatic and terrestrial wildlife species, groundwater protection, enhancement of pollinator populations, or protection of rare and/or native species.

The project will include enhancements to the stream buffer, which currently is comprised of field grass, invasive undergrowth, and sparse to excessive tree canopy. Thinning the trees to remove leaners and undercut trees and open the canopy will allow a wider variety of slope stabilizing understory and pollinator-friendly forbs and grasses to thrive, which will create a more varied terrestrial habitat. Planting the buffer and banks with native vegetation will create a more aesthetically pleasing future public space. The terrain provides opportunities to reconnect the stream to the floodplain.

Measurable Outcomes and Project Impact: Question 8. (15 points): (A) Describe why the proposed project(s) in this application are considered to be the most cost effective and feasible means to attain water quality improvement or protection benefits to achieve or maintain water quality goals. Has any analysis been conducted to help substantiate this determination? Discuss why alternative practices were not selected. Factors to consider include, but are not limited to: BMP effectiveness, timing, site feasibility, practicality, and public acceptance. (B) If your application is proposing to use incentives above and beyond payments for practice costs, please describe rates, duration of payments and the rationale for the incentives' cost effectiveness. Note: For in-lake projects such as alum treatments or carp management, please refer to the feasibility study or series of studies that accompanies the grant application to assess alternatives and relative cost effectiveness. Please attach feasibility study to your application in eLINK.

The channel in this reach is unstable and incised. Channel incision occurs when the elevation of the stream bed has lowered due to a downcutting of stream bed material and leads to a deeper channel where flood flows must reach a higher elevation before overflowing the banks and dissipating energy onto the floodplain. The South Fork has incised to the point that the floodplain has become disconnected, and increased energy contained within the active channel is exacerbating bank erosion. Bank erosion transports sediment and phosphorous from the stream banks into the stream and downstream to additional waterbodies. The feasibility study used BEHI ratings in conjunction with NBS to predict current bank erosion rates, which ranged from 0.036 feet/year in the more stable areas to 0.697-0.872 feet/year in areas with more severe erosion. The more severe areas have poor stream stability and without stabilization and restoration of access to the floodplain would be expected to continue migrating, accelerating erosion and mass wasting and increasing the contribution of sediment and phosphorus to streamflow and bedload. The proposed project will reconnect the stream with its floodplain, stabilize banks using wood and brush toes and live stakes, reduce bank erosion, improve in-stream habitat, and improve water quality. Stabilizing banks and re-establishing a floodplain will reduce bank erosion and sediment loading.

Question 9. (8 points): What steps have been taken or are expected to ensure that project implementation can begin soon after the grant award? Describe general environmental review and permitting needs required by the project (list if needed). Also, describe any discussions with landowners, status of agreements/contracts, contingency plans, and other elements essential to project implementation.

Several conceptual designs have been identified and a preferred alternate is being developed. The project is in the Commission's and City's CIPs. The parcels through which the stream flows have been

acquired by a developer of a future 227 single-family home and 154 townhome development. As a part of the platting process it is expected that the stream corridor will be platted as an outlot and the City will negotiate with the developer whether to acquire fee title to or an easement over the corridor.

The project will require a FEMA No Rise assessment showing that adequate conveyance is maintained, which the City has successfully obtained on other stream restoration projects. Additional permits include a Work in Public Waters permit from the DNR, a Clean Water Act Section 404 permit from the U.S. Army Corps of Engineers, an NPDES General Construction Stormwater Permit, a Letter of Map Revision (LOMR) submission to the DNR and FEMA, and compliance with the Minnesota Wetland Conservation Act. As part of the permitting for the new residential development a Phase 1A Cultural Resource Literature Review and wetland delineation have already been completed for the Study Area.

Question 10. (2 points): What activities, if any proposed, will accompany your project(s) that will communicate the need, benefits, and long-term impacts to your local community? This should go above and beyond the standard newsletters, signs and press releases.

The city of Maple Grove is a lead partner in this project. This project will be publicized on the Commission and city's websites, and we will also work with CCX Media to provide local cable-access TV coverage of the project. When the pedestrian/bike trail is completed, there is the potential for interpretive signage.

Stream Restoration Projects Only: The Legacy Fund Restoration Evaluation Report recommends early coordination and comprehensive planning for stream projects. Describe the expertise of your team (i.e. geomorphology, hydrology, plant and animal ecology, construction site management, and engineering) and early coordination efforts you have been part of to ensure project success.

The City of Maple Grove engaged Stantec, an experienced, knowledgeable engineering consultant to complete the condition assessment and feasibility study and has engaged the same consultant to provide design and construction observation services. City staff will lead the project and provide contract and project management. The City has completed other successful stream restoration projects in a similar manner.

Stream Restoration Projects Only: Describe how your organization will provide financial assurance that operations and maintenance funds are available if needed.

The City of Maple Grove will take on ongoing responsibility for maintaining the channel, including providing vegetation management and restoration of any failures.

The Constitutional Amendment requires that Amendment funding must not substitute traditional state funding. Briefly describe how this project will provide water quality benefits to the State of Minnesota without substituting existing funding.

The grant funds will allow the Commission and City to use more bioengineering techniques to maximize habitat complexity.

