

elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane • Plymouth, MN 55447
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www.elmcreekwatershed.org

June 1, 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](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, June 8, 2022, at 11:30 a.m. in the Mayor's Conference Room at Maple Grove City
Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN.

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	James Kujawa	Rebecca Carlson	Ed Matthiesen
	TAC Members	Karen Galles	Kris Guentzel	Kevin Ellis	Diane Spector
	City Clerks	Brian Vlach	BWSR	Met Council	MPCA
	Official Newspaper		DNR		

Z:\Elm Creek\Meetings\Meetings 2022\05 Regular and Public Meeting Notice.

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AGENDA Regular Meeting June 2, 2022

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

Mayor's Conference Room, Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, 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.
 - a. James Fallon – USGS.
4. Action Items.
 - a. Approve 2021-2023 USGS Agreement.*
 - b. Project Reviews.*
5. Old Business.
 - a. PRAP subcommittee – no update.
6. New Business.
 - a. Preliminary 2023 Operating Budget Report.*
 - 1) Member Assessments.*
 - 2) Reserve Spreadsheet.**
 - b. Accept 2021 Audit Report.**
- 7.. Communications.
 - a. Staff Report.*
 - b. Hennepin County Staff Report.*
8. Education.
 - a. WMWA – next meeting – June 14, 2022, at 8:30 a.m., via Zoom.
9. Grant Opportunities and Updates.
 - a. WBIF Convene Meeting Report.*
10. Project Reviews.

Item No.	E	A	I RPI	AR	Project No.	Project Name
			RP DD			
					W=wetland project	
ca.				AR	2014-015	Rogers Drive Extension, Rogers.

*in meeting packet

**available at meeting or on website

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.
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
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.	A	E			2022-002	Summerwell, Maple Grove.
y.					2022-003	Fox Briar Ridge East, Maple Grove.
z.					2022-004	Loram-Scannell Medina Industrial EAW, Medina.

*in meeting packet

**available at meeting or on website

aa.				2202-005	Bellwether 7 th , 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.	A	E		2022-014	Aster Mill, Rogers.
ak	A	E		2022-015	County Road 47 Phase I Reconstruction, Plymouth.
al.				2022-016	Rogers Activity Center, Rogers.
am.	A	E		2022-017	City Center Drive, Corcoran.
an.	A	E		2022-018	Big Woods, Rogers.
ao.		E		2022-019	Grass Lake Preserve, Dayton.
ap,	A	E		2022-020	Skye Meadows Extension, Rogers.
aq.		E		2022-021	Dayton 94 EAW
ar.	A	E		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.	AA	E		2022-028	Elsie Stephens Park, Dayton.
ay				2022-029	Hayden Hills Park, Dayton.
az.				2022-030	Garages Too, Corcoran.

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 and Public Meetings May 11, 2022

I. A meeting of the Elm Creek Watershed Management Commission was called to order at 11:31 a.m., Wednesday, May 11, 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 Guenther, Corcoran; Doug Baines, Dayton; Joe Trainor, Maple Grove; Catherine Cesnik, Plymouth; and Judie Anderson, JASS.

Not represented: Medina and Rogers.

Also present: Mark Lahtinen, Maple Grove; Ben Scharenbroich, Plymouth; Diane Spector and Erik Megow, Stantec; James Kujawa, Surface Water Solutions; Rebecca Carlson, Resilience Resources; Kris Guentzel and Kevin Ellis, Hennepin County Environmental Services (HCEE); Brian Vlach, Three Rivers Park District (TRPD); and Conner Deur, Sambatek, and Jason Quisberg, Stantec, Dayton, for Project Review 2022-012.

A. Motion by Walraven, second by Guenther to approve the **agenda**. * *Motion carried unanimously.*

B. Motion by Guenther, second by Walraven to approve the **minutes*** of the April 13, 2022, regular meeting. *Motion carried unanimously.*

C. Motion by Guenther, second by Walraven to approve the May **Treasurer's Report and Claims*** totaling \$61,720.24. *Motion carried unanimously.*

[The regular meeting was suspended at 11:33 a.m. in order to convene a public meeting.]

II. Public Meeting - Minor Plan Amendment.*

A. The proposed Third Generation Plan amendment will update the Capital Improvement Program (CIP)* to add three projects:

1. The Maple Grove South Fork Rush Creek Stream Restoration project for 50% cost share in both 2022 and 2023.

2. The City Cost Share Program to share in the cost of small Best Management Practices (BMPs) on city projects in accordance with the Commission's Cost Share Policy.

3. The Partnership Cost Share Program to share in the cost of voluntary load-reduction BMPs on private property in accordance with the Commission's Cost Share Policy.

B. The proposed amendment will also revise Appendix C of the Plan, the Rules and Standards, to:

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

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1. Make the Commission's Rules consistent with the most recent Minnesota General Stormwater Permit, and

2. Clarify the Commission's Standards regarding the required freeboard between the high-water elevation of a constructed or natural water and the low floor or opening of a proposed adjacent structure.

C. **Open public meeting.** The public meeting was opened at 11:37 a.m.

1. **Comments.** Through May 11, 2022, the only comments that were received were from the Metropolitan Council, which indicated they had no comments. Neither the other reviewing agencies, the member cities, nor the public provided comments.

2. **Comments from the public.** No one was present from the general public.

3. The **public meeting was closed** at 11:38 a.m.

D. **Commission Discussion.** No further discussion took place.

Motion by Guenther, second by Walraven to adopt **Resolution 2022-01 Adopting a Minor Plan Amendment*** and to **set the 2022 maximum levy** at \$506,250. *Motion carried unanimously.*

[The regular meeting was reconvened at 11:39 a.m.]

III. **Open Forum.**

James Fallon, USGS, was slated to speak at this meeting; however, his presentation has been rescheduled to the June meeting.

IV. **Action Items.**

A. **Project Review 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. Revisions were received on April 7, 2022, and the project meets the Commission's standards. In their findings dated May 2, 2022, Staff recommends approval conditioned on reconciliation of the escrow fee, receipt of an O&M Agreement between the applicant and the city for all stormwater facilities on the project site, and Wetland Conservation Act (WCA) approval of the wetland fill and decision of the outcome from the Technical Evaluation Panel (TEP). Motion by Guenther, second by Walraven to approve Staff's recommendations. *Motion carried unanimously.*

B. **Project Review 2021-054 Stotts Family Farm Grassed Waterways, Corcoran.*** A complete application was received on December 23, 2021. This is a 100-acre agricultural parcel located 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 **adminis-**

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tratively reviewed and approved for grading and erosion control (Rule E) by Staff. Revised plans received March 28, 2022, meet the Commission’s requirements contingent upon escrow review. Staff’s findings dated April 12, 2022, were included in the meeting packet.

C. Project Review 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 by Staff. In their findings dated May 3, 2022, Staff recommended approval contingent on (a) Elm Creek administrative office escrow review and release and (b) long-term operation and maintenance compliance per the Commission’s requirements. Motion by Guenthner, second by Walraven to approve Staff’s recommendations. *Motion carried unanimously.*

D. Project Review 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 (2) the future 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. In their findings dated May 2, 2022, Staff recommended approval of this project with three conditions: (1) receipt of an additional fee for review of the Flood Alteration portion of the project; (2) final escrow determination; and (3) when 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. Motion by Trainor, second by Cesnik to approve Staff’s recommendations. *Motion carried unanimously.*

E. Project Review 2022-012 Graco Building 2, Dayton.* This site plan proposes to encroach into an existing conservation and preservation easement approved by the Commission for project 2015-011. Commission staff, the City of Dayton and the applicant are looking for guidance and recommendations from the Commission on this encroachment. After discussion, the Commission felt the applicant should provide potential solutions for these impacts. Solutions should be in keeping with the current stormwater management rule D for abstraction volume controls. The Commission can react to the easement impacts based on the solutions proposed and staff’s analysis and recommendations.

F. Project Review 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, completed an initial review,

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and requested additional documents from the applicant. They were received March 29, 2022. Staff reviewed the materials and in their findings dated May 2, 2022 recommend approval with eight conditions: (1) payment of all review fees; (2) this approval is for the Dayton Industrial site only. The City will be submitting separate application for Troy Lane documenting WCA and TEP approval and concurrence with other Commission requirements; (3) applicant must meet all City Requirements as a condition of this permit; (4) applicant shall show buffer monumentation on drawings and provide a planting plan for buffered areas in accordance with Commission standards; (5) provide signed agreement from adjacent landowner (Cubes) and the City for any off site grading and direction of flow to the east; (6) summarize the flow from the west and document no impacts to landowner on west. Update rates to reflect off site flow to city satisfaction; (7) provide WCA and LGU approvals and mitigation plan before any Wetland Impacts can occur; and (8) an operation and maintenance agreement for the stormwater facilities that implement those conditions that bind current and future owners of the project shall be recorded on this property. Motion by Trainor, second by Cesnik to approve Staff's recommendations. *Motion carried unanimously.*

G. Project Review 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 covers Rules D, E, G, and I. A complete plan was received March 30, 2022. Initial comments were sent to the applicant on April 14, 2022, and subsequent resubmittals were received on April 27, 2022. The project meets the Commissions' standards. In their findings dated May 4, 2022, Staff recommends approval with five conditions: (1) final application escrow fee determination; (2) update plans to provide appropriate wetland buffer seed mix for any disturbed wetland buffer areas; (3) the elevation of Device #5 in node 11P (888.60) of the proposed HydroCAD model is not consistent with what is shown on the plan sheets (888.50). Update the proposed grading plan and sheets to be consistent. Update report and tables if necessary to be consistent with HydroCAD results; (4) provide Notice of Decision forms from the MN Board of Water and Soil Resources for Wetlands 2, 4, and 5 to confirm that wetland mitigation measures are not needed and that the wetlands are incidental; and (5) submit finalized construction plans prior to the construction of the proposed buildings and parking lots. Plans will be needed to confirm that the site does not exceed the proposed impervious surface area (8.77 acres) and that the impervious surfaces are routed to the proposed stormwater improvements. Motion by Guenthner, second by Trainor to approve Staff's recommendations. *Motion carried unanimously.*

V. Old Business.

A The **PRAP subcommittee** did not meet in May.

B. Reminder: Volunteers are needed for **CAMP monitoring** this year. Staff will review which lakes are needful of monitoring data.

VI. New Business.

A. 2023 Operating Budget.* According to the Joint Powers Agreement, the Commission must on or before June 15 of each year adopt a budget for the coming year. Typically,

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the Commission would consider a preliminary budget in May of each year, either adopting it at the May meeting or holding over action to the June meeting. The budget must be transmitted along with notice of the apportionment of costs to each city by July 1. Member cities then have until August 15 to comment on or raise objections to the budget. If no objections are submitted, the budget proceeds as adopted. If objections are submitted in writing, then the Commission must hold a public hearing to consider modifying the budget or proceeding with no change.

The Budget Committee and Staff met on May 4, 2022, to review a draft version of a proposed 2023 budget, and are not yet ready to present a recommended budget to the Commission for its consideration. However, the Committee does offer the following general comments and questions for discussion:

1. The Committee does not anticipate any substantive changes to the operating programs that would impact the budget. Certain line items will be proposed for slight increase or decrease depending on the actual cost and revenues of the last few years.

2. 2022 is the final year in the Three Rivers contract for monitoring. The District has submitted updated contract prices for lake and stream monitoring that more closely recaptures their cost of providing that service. This is a proposed increase of \$1,275 for the combined services, from \$19,157 to \$20,432.

3. Interest income has fallen dramatically in the last few years, a combination of much lower interest rates and a lower fund balance as capital projects have been completed and grant/levy funds paid out. In previous years interest was several thousand dollars per year, but in 2021 was less than \$200 total. That revenue allowed the Commission to subsidize and limit city assessments.

4. The Committee and Staff continue to work through and learn from the past years' experience with the new project review fee structure. Administrative costs were higher than expected as new procedures were put into place and operations worked out. As Staff becomes more efficient and experienced those costs should decline. They will continue to monitor performance through 2022 and, if necessary, recommend revisions to the fee structure, including both the fixed, non-refundable administrative and technical fees, and the minimum escrows by project type and size.

5. The Committee would appreciate feedback from the Commission and TAC on city assessments for 2023, whether they should be increased and, if so, by how much. The 2020 and 2021 assessments were both \$232,300, which was an increase from \$225,000 in 2019, which itself was no increase over 2018. Between 2018 and 2022, the CPI-U increased 15.2%, while the member assessment increased 5.5%.

6. The budget committee is requesting feedback and will meet again on May 17. They expect to send out a proposed 2023 budget the week of May 23, in advance of the meeting packet.

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B. The next Convene Meeting for the **2022-2023 Watershed-Based Implementation Fund (WBIF)** process is scheduled for May 23, 2022, at 10:00 a.m.

VII. Communications.

A. **Staff Report.*** Staff reports provide updates on the development projects currently under review by Staff or awaiting final recordations. The projects listed in the table beginning on page 10 of these minutes are discussed in this month's report. Megow provided a **Communications Log*** of activities related to pre-project review activity as an addendum to the Staff Report.

B. **Hennepin County Staff Report.***

1. **Project Updates.**

a. 13861 129th Ave N., Dayton. Landowner requested scaled up version of manure bunker plans (20 feet x 20 feet with a 6-foot apron). Hennepin County met with Houston Engineering to request an updated plan set with those dimensions. This project is ready to start construction as soon as the plans are returned and approved.

b. 22835 County Road 10, Corcoran. The County is entering the contracting process for livestock exclusion fencing that will be constructed alongside a stream and wetland. Construction is ready to begin as soon as the contract is approved.

c. 9945 Sundance Road. Landowner has received quote for exclusion fencing to keep cattle out of Rush Creek, barn gutters, and pasture waterers for livestock. Project has moved into the contracting phase. Construction for this project is expected to begin in late Spring or early Summer 2022.

d. 9310 Bechtold Road. County staff met with engineer from Houston Engineering to discuss potential BMPs that could be implemented. More data was requested including survey data. Staff are currently delineating drainage area and determining the flow of water to see if there are any upstream projects that can be done to help reduce drainage problems.

e. **Buffer Inspection** will run from June through September, weather dependent. The priority area in the tri-cycle of inspections will be the southern end of the watershed.

2. **Lake Pledge website and app** for aquatic invasive species prevention. In 2021, County staff and three lakes in Maple Grove piloted an exciting and innovative AIS prevention website for lakeshore homeowners. Since then, eight lakes have started the program with the majority of outreach occurring neighbor to neighbor and from lake association members. Their goal is to have 90% of landowners on lakeshore properties learn more about how they can prevent aquatic invasive species, "take the pledge", and obtain Legendary status. Participating lakes include Weaver, Fish, Cedar Island from 2021, and new for 2022, Mitchell, Bush, Riley, Long, Independence, and Sarah with more to be announced in the future.

County staff are excited to make this resource (available as a website or mobile app) available to any interested lakes in Hennepin County. This educational tool will help lakeshore homeowners make their lakes "Legendary" in the basics of AIS prevention and individuals

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can receive gamification trophies. The site reports on the percentage of homes participating on each lake. Congratulations to Weaver Lake homeowners who have taken the early lead!

3. Hennepin County Soil Health Incentive Program. The County has funding and support to promote soil health. Effective practices such as planting cover crops and reducing tillage are eligible for the new soil health incentive program. The program pays for soil testing and analysis, membership to the Minnesota Soil Health Coalition, technical assistance, mentorship, and support from other farmers implementing soil health measures. In addition, the program also provides payments to farmers working to improve their soils through cover cropping, diverse crop rotations, and reduced, strip or no-till practices. The program is open to all agricultural land operators in the county and can be used in conjunction with NRCS or crop retail programming. A flyer with more details was included with the report.

VIII. Education and Public Outreach.

The West Metro Water Alliance (WMWA) met on May 10, 2022. See the discussion under section IX., below. The **next WMWA meeting** will be held via Zoom at 8:30 a.m., June 14, 2022.

IX. Grant Opportunities and Project Updates.

The **Watershed Based Implementation Funding (WBIF)*** committee met for its second convene meeting on April 25, 2022. In attendance were Steve Christopher (BWSR), and city representatives Heather Nelson (Champlin) and Nico Cantarero (Dayton), with Commission Chair Doug Baines joining at the end of the meeting. Hennepin County representative Kris Guentzel was not able to attend.

The group reviewed potential actions identified for possible funding, including projects programmed in the CIP for the next few years, TMDL actions such as lake internal load feasibility studies or aquatic vegetation/rough fish management, and education and outreach options.

Spector noted that WMWA had been working with Hennepin County staff about the possibility of a shared staff member who could provide education and outreach within the four WMWA watersheds. The County was fleshing out the possibilities and what the cost would be, which they thought would be in the vicinity of \$100,000 per year. The expectation is that this staff person would be available to provide targeted workshops, on-site consultations, and targeted outreach on various water quality topics. It is possible that this could be developed in tandem with Metro Blooms to incorporate their expertise, especially in outreach to underserved groups. The group generally favored reserving funds for education and outreach in the \$25,000-30,000 funding range.

The group also discussed funding actions that would identify more projects that could be incorporated into future capital projects for funding by grants and levy. This includes undertaking additional subwatershed assessments and also looking at funding stream assessments in areas of known instability or ongoing erosion issues. The group requested Spector to summarize completed SWA and stream stabilization work and where the next priority areas might be and the cost of undertaking this work for reference at the next convene meeting.

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The group identified as the third funding priority, funding for agricultural and large-lot rural residential outreach and potential cost-share projects through Hennepin County. Spector will request Hennepin County to provide a ballpark estimate of the amount that could reasonably be expended by the end of 2025 and where the priority areas for implementation would be.

In summary, the priority areas for funding to be discussed in more detail at the next convene meeting are:

1. General education and outreach in potential partnership with Hennepin County
2. One or more additional SWAs in priority areas
3. Streambank assessments to identify future stream stabilization needs
4. Targeted outreach and cost-share to agricultural and large-lot rural residential properties

X. Other Business.

A. Spector attended the MPCA/DNR Mississippi River - Twin Cities HUC 8 Watershed **Professional Judgement Group (PJG) – WEST** meeting on April 28, 2022. This is a step in the process where the MPCA and DNR's watershed assessment team reviews water quality and other data to determine which streams and lakes are meeting or exceeding state standards, as well as identifying where more information is needed. The purpose of the PJG meeting is to take local and public input on potential new impairments, new de-listings, those waterbodies that are recognized as nearly or barely impaired, and those that are vulnerable. This includes assessment results from monitoring chemical parameters as well as from biological monitoring of aquatic invertebrates and fish. The MPCA will use this information to develop and submit to the EPA a new draft Impaired Waters list, which is several steps further down the road in the process.

B. For Elm Creek there is some good news and some not so good news.

1. The MPCA is proposing a new impairment listing on **Elm Creek** – TSS. While this is a new impairment listing, recall that TSS was a primary biotic stressor, and as such the watershed wide TMDL includes a TMDL and load reductions for TSS in Elm Creek. MPCA staff indicated there will likely be no actions necessary by the Commission or MS4s, it will likely just be some paperwork on their end to associate this new impairment with the in-place TMDL. So new impairment, but no new action will likely be required.

2. **Rice Lake** was diagnosed with moderately elevated chloride concentrations. No impairment, just for information and consideration.

3. **Fish Lake** was noted to be now meeting the TP and Secchi standard, but still experiencing elevated chl-a, and there was a question as to whether it should be delisted at this time. Spector was able to provide some background to the PJG about the alum treatment and carp management activities that are ongoing, and that there was active management and oversight by the city, Three Rivers Park District, and the commission. That was sufficient for the group to feel comfortable recommending that Fish Lake be proposed for delisting for nutrients.

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

Unfortunately, there is a new impairment proposed for **Fish Lake**: Fish IBI. Spector has a little information about which of the fish metrics seem to contribute to the low score, but the more complete actual IBI data can be readily obtained when it comes time to figure out what if anything to do about it.

4. Two other lakes fall into the “vulnerable” category which, while not impairments, are indications that some attention should be given to them and that there may be an impairment in the future - **Weaver Lake**, for Fish IBI, and **Jubert Lake** for nutrients. Spector provided the PJG with information about the BMP work Hennepin County is doing with landowners around Jubert Lake, and they added that to the information record.

5. There will likely be one technical correction proposed in this watershed. **Diamond Creek** was listed as impaired for macroinvertebrate IBI and included in the watershed wide TMDL. Since that listing, the MPCA has made some slight revisions to their IBI formula, and they have gone back and re-scored the assessments in this area. Diamond Creek, which was slightly below the impairment threshold, now scores slightly above the threshold and will be removed from the Impaired Waters Inventory as a technical correction.

XI. Adjournment. There being no further business, motion by Sharp, second by Guenthner to adjourn. *Motion carried unanimously.* The meeting was adjourned at 1:58 p.m.

Respectfully submitted,



Judie A. Anderson
Recording Secretary
JAA:tim

Z:\Elm Creek\Meetings\Meetings 2022\May 11 2022 Regular and public meeting minutes.docx

RULE D - STORMWATER MANAGEMENT
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CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - ROGERS

elm creek Watershed Management Commission

Regular and Public Meeting Minutes – May 11, 2022

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Item No.	E	A	I RPF	AR	Project No.	Project Name
			RP DD			
					W=wetland project	
b				AR	2014-015	Rogers Drive Extension, Rogers.
b				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
b				AR	2016-005W	Ravinia Wetland Bank Plan, Corcoran.
b				AR	2017-014	Laurel Creek, Rogers.
b				AR	2017-029	Brayburn Trails, Dayton.
a					2017-050W	Ernie Mayers Wetland/floodplain violation, Corcoran.
b				AR	2018-046	Graco, Rogers.
b				AR	2018-048	Faithbrook Church Phase 2, Dayton.
b				AR	2019-021	Brenly Meadows, Rogers.
b				AR	2019-026	Interstate Power Systems, Rogers.
b				AR	2019-027	Havenwood at Maple Grove.
b				AR	2020-008	Ione Gardens, Dayton.
b				AR	2020-009	Stetler Barn, Medina.
b				AR	2020-017	Meadow View Townhomes, Medina.
b				AR	2020-023	Ziegler Dayton Site Upgrades, Dayton.
b				AR	2020-032	Enclave Rogers - Commerce Boulevard, Rogers.
b				AR	2020-033	Weston Woods, Medina.
b				AR	2020-036	Balsam Pointe, Dayton.
b				AR	2021-007	Birchwood 2nd Addition, Rogers
b				AR	2021-016	Territorial Lofts, Rogers.
b				AR	2021-020	Crew Carwash, Maple Grove.
b				AR	2021-021	Territorial Triangle, Dayton.
b				AR	2021-023	Maple Grove Medial Office Building (MOB).
b				AR	2021-024	Riverwalk, Dayton
b					2021-025	Hackamore Road Reconstruction, Medina/Corcoran.
c					2021-026	Prairie Creek Subdivision, Medina.
b					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.
b					2021-035	Mister Car Wash - Rogers
b					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.
c					2021-040	Napa Auto, Corcoran.
c					2021-041	Carlson Ridge, Plymouth.
k					2021-043	Northwood Community Church Maple Grove.
l					2021-044	Balsam II Apartments, Dayton.
n					2021-046	Len Busch Roses, Plymouth
n					2021-047	CR 10 Box Culvert Replacement, Corcoran
d					2021-048	Bellwether - Newman West, Corcoran

RULE D - STORMWATER MANAGEMENT

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

elm creek Watershed Management Commission

Regular and Public Meeting Minutes – May 11, 2022

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p				2021-049	Dayton Interchange Business Center, Dayton.
d				2021-050	Evanswood, Maple Grove.
r				2021-051	Fields of Nanterre Drainage Improvements, Plymouth.
s				2021-052	Norbella Senior Living, Rogers.
t	A	E		2021-053	Towns at Fox Creek, Rogers.
u		E		2021-054	Stotts Family Farm Grassed Waterways, Corcoran.
v				2021-055	Morningside Estates 6 th Addition, Champlin.
v	A	E		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.
a				2022-005	Bellwether 7 th , Corcoran.
a				2022-006	Hamel Townhomes, Medina.
a				2022-007	Weston Commons 2nd, Maple Grove.
a				2022-008	Bechtold Farm, Corcoran.
a				2022-009	Dunkirk Lane Development, Plymouth.
a				2022-010	Unity Tool Building Addition, Dayton.
a	A	E		2022-011	Arrowhead Drive turn Lane expansion,
a	A	E		2022-012	Graco Building 2, Dayton.
a	A	E		2022-013	Dayton 94 Industrial Site, Dayton.
a				2022-014	Aster Mill, Rogers.
a				2022-015	County Road 47 Phase I Reconstruction, Plymouth.
a				2022-016	Rogers Activity Center, Rogers.
a				2022-017	City Center Drive, Corcoran.
a				2022-018	Big Woods, Rogers.
a				2022-019	Grass Lake Preserve, Dayton.
a				2022-020	Skye Meadows Extension, Rogers.
a				2022-021	Dayton 94 EAW
a				2022-022	Cook Lake Highlands, Corcoran.
a				2022-023	Asguard, Rogers.
a				2022-024	Bridge No. 27J70, Maple Grove.

= Action item E = Enclosure provided I = Informational update will be provided at meeting RPF - 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
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CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - ROGERS

Elm Creek Watershed Management Commission Treasurer's Report

		2022 Budget	May 2022	June 2022	2022 Budget YTD
EXPENSES					
Administrative		95,000	8,972.14	9,315.99	49,924.26
Grant Writing		500			0.00
Website		3,000	58.10	63.70	324.40
Legal		2,000	46.50	31.00	310.00
Audit		6,000			0.00
Insurance		3,800		3,565.00	3,765.00
Meeting Expense					1,250.00
Miscellaneous/Contingency		1,000			0.00
Floodplain Mapping		0	26,607.75		27,652.75
Project Review Technical		107,500	15,842.25	13,237.50	64,501.50
Other Technical		77,500	7,108.25	3,300.00	24,397.25
Project Reviews - Admin Support		15,000	2,266.07	1,848.52	7,725.23
Stream Monitoring USGS		24,000			0.00
Stream Monitoring TRPD		9,345			0.00
DO Longitudinal Survey		1,200			0.00
Rain Gauge		420	30.81	31.71	146.78
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	538.94	500.00	1,090.69
WMWA General Activities		5,000			0.00
WMWA Implementation/Watershed Prep		4,500			0.00
Rain Garden Wkshops/Intensive BMPs/Special Projects		2,000			0.00
Macroinvertebrate Monitoring-River Watch		3,000			0.00
Studies / Project ID / SWA		0			0.00
CIPs General		3,000	88.11	44.25	792.46
Rush Creek SWA Implementation		106,050			
Plan Amendment		2,000	161.82	602.54	865.32
Contribution to 4th Gen Plan		12,500			0.00
Transfer to (from) Capital Projects (see CIP Tr		291,638			0.00
Transfer to (from) Cash Sureties (see below)			-	-	504.11
Transfer to (from) Grants (see below)		125,000	-	-	0.00
To Fund Balance					0.00
TOTAL - Month			61,720.74	32,540.21	183,249.75
TOTAL Paid in 2022, incl late 2021 Expenses		931,405.00	236,436.05	268,976.26	2022 Paid

Elm Creek Watershed Management Commission Treasurer's Report

		2022 Budget	May 2022	June 2022	2022 Budget YTD
INCOME					
Project Review Fee		107,500	15,950.00		82,500.00
Refund Project Fee					0.00
Nonrefundable Admin		15,000	1,450.00		7,500.00
Nonrefundable Technical		16,125	2,175.00		11,250.00
Water Monitoring - TRPD Co-op Agmt		6,000			0.00
Member Dues		237,300			237,300.00
Interest/Dividends Earned		5,250	708.48		1,079.76
Transfer to (from) Capital Projects (see CIP Tr		291,638			0.00
Transfer to (from) Grants (see below)		125,000	-	-	0.00
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			20,283.48	0.00	339,629.76
TOTAL Rec'd 2022, incl late 2021 Income		931,405.00	349,080.75	349,080.75	2022 Received
CASH SUMMARY		Balance Fwd			
Checking		0.00			
4M Fund		1,503,168.70	1,615,813.40	1,583,273.19	
Cash on Hand			1,615,813.40	1,583,273.19	
CASH SURETIES		Balance Fwd			Activity 2021
WCA Administrative Escrows		338			-40.11
WCA Monitoring Escrows		7,767			-464.00
Total Cash Sureties		8,105	7,600.66	7,600.66	
Deferred Revenue - 2019 WBIF Grant		67,243			
Total Restricted Cash		75,348	75,851.88	75,851.88	
Claims Presented		General Ledger Account No	May	June	TOTAL
Campbell Knutson - Legal		521000		31.00	31.00
Connexus - Rain Gauge		551100		31.71	31.71
ECM Publishers					531.60
Hearing Notice Plan Amendment		541500		531.60	
League of MN Cities					3,565.00
LMC - Property, Liability Insurance		513000		3,565.00	
Surface Water Solutions					16,537.50
Project Review Technical		578050		13,237.50	
Other Technical		578050		3,300.00	
Watershed Partners -Membership 2022		590000		500.00	500.00
JASS					11,343.40
Administration		511000		8,530.27	
TAC Support		511000		711.86	
Website		581000		63.70	
Project Reviews		578100		1,267.52	
Project Reviews - Project Specific Admin		578100		581.00	
HUC-8 -Floodplain Mapping Admin		580430		73.86	
Plan Amendment		541500		70.94	
Education		590000			
CIPs General		563001		44.25	
TOTAL CLAIMS					32,540.21

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
April 30, 2022
Account # 1448G

SUMMARY STATEMENT

PREVIOUS BALANCE	FEES	EXPENSES	CREDITS	PAYMENTS	BALANCE
1448-0000 RE: GENERAL MATTERS					
SERVICES RENDERED TO DATE:					
46.50	31.00	0.00	0.00	0.00	\$77.50
pd 5/11					\$31.00

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
April 30, 2022
Account # 1448-0000G
237

RE: GENERAL MATTERS
SERVICES RENDERED TO DATE:

04/18/2022	JJJ	Emails Judie re: public notices ADA language.	HOURS	
			0.20	31.00
		AMOUNT DUE	0.20	31.00
		TOTAL CURRENT WORK		31.00
		PREVIOUS BALANCE		<i>pd 5/11 -</i> \$46.50
		TOTAL AMOUNT DUE		\$77.50 \$ 31.00

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.



Monthly Statement

Service Address
ELM CREEK RD
DAYTON MN

Billing Summary

Billing Date: May 17, 2022

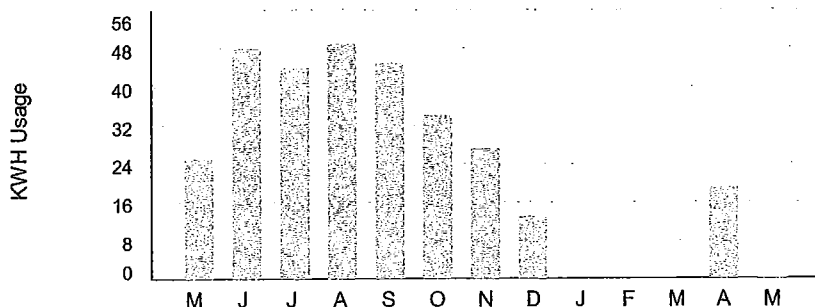
Previous Balance	\$30.81
Payments - Thank You!	\$30.81
Balance Forward	\$0.00
New Charges	\$31.71

Total Amount Due **\$31.71**

Payment must be received on or before June 13, 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

Account Number:

481113-238425

ELM CREEK WATERSHED MGMT ORG

Total Amount Due

\$31.71

Due Date

June 13, 2022

Message Center

Electric Forklift Rebates

Our electric forklift program offers up to \$2,000 in rebates for members who convert from either a diesel or propane powered forklift. Up to \$200 battery charger rebates also available. Learn more about business rebates online at connexusenergy.com.

Gopher State One Call

Before you start digging, call Gopher State One Call. Minnesota law requires you to call and have utilities mark the location of their underground utility lines. To request a locate, call 811 or 1.800.252.1166.

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

TRA3-D-006996/006331 VG16DD S1-ET-M1-C00002 1



Account Number:

481113-238425

Total Amount Due

\$31.71

Payment Due By

June 13, 2022



006996 1 AB 0.458 003007/006996/006331 023 02 VG16DD
ELM CREEK WATERSHED MGMT ORG
3235 FERNBROOK LN N
PLYMOUTH MN 55447-5325



Connexus Energy

PO Box 1808
Minneapolis, MN 55480-1808



Publishers, Inc.
4095 Coon Rapids Blvd.
Coon Rapids, MN 55433
Address Service Requested

☐ PLEASE CHECK BOX IF ADDRESS CHANGED
& INDICATE NEW ADDRESS

Page # 1

INVOICE

Invoice Date
5/5/2022

Invoice Number	Ad Number
890856	1223175

Terms
Net 30

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

Check Number	Amount Paid

Account # 419241 \$531.60

ACCOUNT NUMBER	START DATE	STOP DATE	EDITION DATE	ACCOUNT REPRESENTATIVE
419241	04/28/22	05/05/22	5/5/2022	Osseo Legals 763-691-6001

Please return the upper portion with your payment. Or call 763-712-2494 with a credit card payment.

PUBLICATION	DATE	AD#	CLASS	DESCRIPTION/TAG LINE	TYPE	SIZE	QTY/TIMES	AMOUNT
Osseo MG Champlin & Dayton Press	05/05/2022	1223175	150	May 11 PH Watershed Plan amen	L	1.0 X 14.56	2	531.60

Net Amount	531.60
Shipping	0.00
Tax	0.00
Amount Due	531.60

890856



\$30 charge assessed for returned checks.
Report errors within 5 days to ensure consideration.
Unpaid balances over 30 days past due will incur a 1.5%
finance charge per month (Minimum .50 per month).

AFFIDAVIT OF PUBLICATION

STATE OF MINNESOTA)
COUNTY OF HENNEPIN) ss.

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

Osseo MG Champlin Dayton Press

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

HENNEPIN

with additional circulation in the counties of:
HENNEPIN

and has full knowledge of the facts stated below:

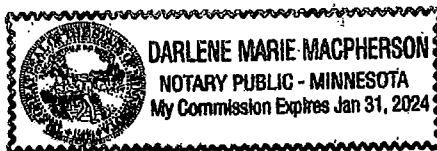
- (A) The newspaper has complied with all of the requirements constituting qualification as a qualified newspaper as provided by Minn. Stat. §331A.02.
- (B) This Public Notice was printed and published in said newspaper(s) once each week, for 2 successive week(s); the first insertion being on 04/28/2022 and the last insertion being on 05/05/2022.

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

By: Karen Nelson
Designated Agent

Subscribed and sworn to or affirmed before me on 05/05/2022 by Karen Nelson.

Darlene M MacPherson
Notary Public



Rate Information:

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

\$17.90 per column inch

Ad ID 1223175

ELM CREEK WATERSHED MANAGEMENT COMMISSION LEGAL NOTICE NOTICE OF PUBLIC MEETING

TO WHOM IT MAY CONCERN:

Notice is hereby given that the Elm Creek Watershed Management Commission will meet at Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN, on Wednesday, May 11, 2022, at 11:30 a.m., or as soon thereafter as the matter may be heard, for a public meeting on two proposed amendments to the Commission's *Third Generation Watershed Management Plan*. The Commission proposes:

(A) To adopt revisions to Table 4.5 of that document to add three projects and to revise Appendix G, to add descriptions of those projects. **Table 4.5, Elm Creek WMC Third Generation Plan Capital Improvement Program** is hereby revised to add the following:

S. Fork Rush Creek Stream Restoration, Maple Grove, est. cost \$3,250,000, Comm. share in 2022 \$406,250 and in 2023 \$406,250.

City Cost Share, watershed-wide, est. cost \$100,000, Comm share in 2022 \$50,000, in 2023 \$50,000 and in 2024 \$50,000.

Partnership Cost share, watershed-wide, est. cost \$50,000, Comm share in 2022 \$50,000, in 2023 \$50,000 and in 2024 \$50,000.

Appendix G, CIP Descriptions is hereby revised to add the following:

S. Fork Rush Creek Stream Restoration. Stream restoration and floodplain re-establishment from 101st Ave N, north to the confluence with the N. Fork of Rush Creek. Approx. 7,200 linear feet. The cost is split 50/50 between 2022 and 2023.

City Cost Share. This annual project provides 50% cost-sharing to complete smaller projects on city property on a voluntary basis in accordance with policies and procedures established by the Commission.

Partnership Cost Share. This program provides up to 100% cost sharing to member cities to complete smaller 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.

(B) To adopt revisions to **Appendix C Rules and Standards** of that document to:

- (1) make the rules consistent with the most recent Minnesota General Stormwater Permit; and
- (2) clarify the Commission's standards regarding the required freeboard between the high-water

ter elevation of a constructed or natural water and the low floor or opening of a proposed adjacent structure.

Go to <http://www.elmcreekwatershed.org/third-generation-plan.html> to view the complete text of these proposed revisions.

The Elm Creek watershed includes parts of the cities of Champlin, Corcoran, Dayton, Maple Grove, Medina, Plymouth, and Rogers.

Persons who desire to be heard with reference to the proposed amendment will be heard at this meeting. Written comments may be submitted to Doug Baines, Chair of the Elm Creek Commission, c/o JASS, 3235 Fernbrook Lane, Plymouth, MN 55447, or emailed to judie@jass.biz. Auxiliary aids for persons with disabilities are available upon request at least seven days in advance. Please contact Judie Anderson at 763-553-1144 to make arrangements.

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

Published in
The Press
April 28, May 5, 2022
1223175



CONNECTING & INNOVATING
SINCE 1913

Invoice

Page 1 of 3

Member Name and Address

Elm Creek Watershed
Management Commission
3235 Fernbrook Lane North
Plymouth, MN 55447-5325

Invoice Date

05/23/2022

Agent

Arthur J Gallagher Risk Management Services Inc
3600 American Blvd W Ste 500
Bloomington, MN 55431-4502
(952)358-7500

Account Number: 10002968
Account Type: Property/Casualty Coverage Premium
Current Balance: \$ 3,565.00
Minimum Due: \$ 3,565.00
Due Date: 07/10/2022

Summary of activity since last Billing Invoice	Date	Activity	Account Balance	Minimum Due
See reverse side and attachments for additional information		Previous Invoice Balance	3,456.00	
		Payments Received	-.00	
		Total of Transactions and Fees shown on reverse or attached	3,565.00	
		Current Balance	\$ 3,565.00	\$ 3,565.00

Detach and return this Payment Coupon with your payment	Account Number	Invoice Date	Due Date	Current Balance	Minimum Due	Amount Enclosed
	10002968	05/23/2022	07/10/2022	\$ 3,565.00	3,565.00	\$

Member Name Elm Creek Watershed Management Commission

BILLING INVOICE - Return stub with payment - make checks payable to:

Mail payment
7 days before
Due Date to
ensure timely
receipt

League of MN Cities Insurance Trust P&C
c/o Berkley Risk Administrators Company
222 South Ninth Street, Suite 2700
P.O. Box 581517
Minneapolis, MN 55458-1517

METRO WATERSHED PARTNERS



MINNESOTA WATER
LET'S KEEP IT CLEAN

INVOICE

651-523-2812
jabere01@hamline.edu

Attention: Amy Juntunen
Elm Creek WMC
3235 Fernbrook Lane N.
Plymouth, MN 55447
Date: 5/26/22

Metro Watershed Partners
Hamline University
1536 Hewitt Ave. MS-A1760
Saint Paul, MN 55104

Project Title: Clean Water Minnesota

Description	Cost
2022 Membership: Clean Water MN and Adopt-a-Drain	\$500.00
TOTAL	\$500.00

Benefits of membership

- You and your colleagues are invited to attend our monthly meetings, to network and share information with other watershed education professionals, and to hear monthly speakers on topics relevant to our work. The Watershed Partners meet on the second Wednesday of the month from 9 – 11am. Right now all meetings are held on Zoom.
- You and your colleagues are invited to be added to our listserv on Mobilize, where you can receive meeting notifications and partner updates, and send messages to, and receive announcements from, other partners. If you would like to be added to Mobilize, please email Jenni Abere (jabere01@hamline.edu) and request to be added.
- Your organization will be listed as a supporting partner on cleanwatermn.org/about-us
- Your organization will be listed as a supporting partner on adopt-a-drain.org whenever someone clicks on a drain in your service area, and on email communication to adopters in your area.
- You will have access to an administrative portal on Adopt-a-Drain.org that allows you to access data about drains and program participants in your area.
- You will receive an annual report that includes summary data about drains and program participants in your area.
- You are able to access print resources to promote Adopt-a-Drain to residents in your area here: <https://www.cleanwatermn.org/partners/adopt-a-drain-resources/> (password: CleanWater)
- Portable educational exhibits are available for checkout. Find more information at: <https://www.cleanwatermn.org/partners/>
- For an additional fee, participants in your area can receive yard signs and a printed "welcome kit" in the mail. Please contact Jenni Abere for more information.

Duration of service: January 1 - December 31st, 2022. Unspent funds will rollover to support program activities in 2023.

INVOICE

Comments

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

Stantec Project #

Invoice Date: February 11, 2022
Invoice Number: 2022-01

Type	Date	Hours	Job	Task	Memo	Amount	Paid	Column
ECWMC	1/18/2022	0.25	Project Reviews	2021-043	QA/QC for R.M.	31.25		
ECWMC	1/18/2022	0.25	Project Reviews	2021-044	mechanical system check/review on sump pipe elevation	31.25		
ECWMC	1/18/2022	2.00	Project Reviews	2021-049	revision review and findings	250.00		
ECWMC	1/19/2022	1.25	Project Reviews	2021-049	review and findings/email to city/applicant	156.25		
ECWMC	1/19/2022	0.40	Project Reviews	2021-055	QA/QC for R.M.	50.00		
ECWMC	1/25/2022	0.75	Technical Services	pre-project review	email 1/24/22 to Corcoran-video conf. 1-25-22 w/ KT, RM, SH	93.75		
ECWMC	2/2/2022	0.60	Technical Services	pre-project review	correspondence to Ernie Mayers	75.00		
ECWMC	2/2/2022	0.60	Technical Services	meetings	Staff report updates	75.00		
ECWMC	2/2/2022	0.50	Project Reviews	2021-010	final vs approved plan review	62.50		
ECWMC	2/3/2022	0.25	Technical Services	pre-project review	general assistance-Henn Co corcoran restoration project	31.25		
ECWMC	2/7/2022	2.40	Project Reviews	2022-001	Project review	300.00		
ECWMC	2/9/2022	4.00	Technical Services	meetings	TAC and Commission meetings	500.00		
ECWMC	2/10/2022	0.75	Project Reviews	2022-001	Project review and findings.	93.75		
ECWMC	2/11/2022	0.25	Project Reviews	2021-053	QA/QC for R.M.	31.25		
ECWMC	2/11/2022	0.25	Project Reviews	2021-052	QA/QC for R.M.	31.25		
ECWMC						0.00		
Total								
Job Level Summary						\$ 1,812.50 total		

Project # 227704774

Task #	Amount
100	\$200.00
300	\$575.00
400	\$ 62.50
	<u>\$37.50</u>
200.2021.43	\$ 31.25
200.2021.44	\$ 31.25
200.2021.49	\$406.25
200.2021.52	\$ 31.25
200.2021.53	\$ 31.25
200.2021.55	\$ 50.00
200.2022.01	\$393.75
	<u>\$ 1,812.50</u>

OK to pay 2/18/22 dfs

INVOICE

Comments

James C. Kujawa

Surface Water Solutions LLC

6533 Nedderson Circle

Brooklyn Park, MN 55445-3206

952-456-4091

surfacewatersolutions@outlook.com

Stantec Project #

Invoice Date: March 12, 2022

Invoice Number: 2022-02

Type	Date	Hours	Job	Task	Memo	Amount	Paid	Column
ECWMC	2/13/2022	4.50	Project Reviews	2022-001	General	project review and findings	562.50	
ECWMC	2/25/2022	1.00	Technical Services	2021-055	QA/QC for R.M.	emails/voice mails/file mgmt 2-14 to 2-25	125.00	
ECWMC	2/25/2022	0.50	Technical Services	2021-028	review updated plan set review and email	QA/QC for R.M.	62.50	
ECWMC	2/27/2022	2.75	Project Reviews	2022-005	project review and findings/email	project review and findings/email	156.25	
ECWMC	3/1/2022	4.00	Project Reviews	2022-007	project review and findings/ emails/phone conversations	project review and findings/ emails/phone conversations	343.75	
ECWMC	3/2/2022	1.00	Technical Services	2021-050	staff report updates	staff report updates	500.00	
ECWMC	3/2/2022	0.50	Project Reviews	2021-049	15.99 deadline email notice	QA/QC for R.M.	125.00	
ECWMC	3/2/2022	0.50	Project Reviews	2021-028	buffer update review/comments/email	15.99 deadline email notice	62.50	
ECWMC	3/3/2022	1.50	Project Reviews	2022-008	initial review/incomplete application notification and emails	buffer update review/comments/email	187.50	
ECWMC	3/7/2022	1.25	Project Reviews	2022-008	review/remails/phone calls	initial review/incomplete application notification and emails	156.25	
ECWMC	3/8/2022	0.30	Project Reviews	2022-010	Project overview/incomplete application email	review/remails/phone calls	37.50	
ECWMC	3/8/2022	0.5	Technical Services	2022-008	E.M. meet and greet	Project overview/incomplete application email	62.50	
ECWMC	3/8/2022	1.00	Project Reviews	2022-008	review work	E.M. meet and greet	125.00	
ECWMC	3/8/2022	4.00	Technical Services	2022-008	TACWBI/ECWMC meetings	review work	500.00	
ECWMC	3/10/2022	2.80	Project Reviews	2022-008	Review and findings	TACWBI/ECWMC meetings	350.00	
ECWMC	3/10/2022	0.30	Technical Services	Pre-Project Review	J.Swanson-Civil Site Dgn-phonemail-Dayton Parks Dept.	Review and findings	37.50	
Total						3,487.50		
Job Level Summary						\$ 3,487.50 total		

Project # 227704774

Task #

100	\$ 37.50
300	\$625.00
400	\$406.25
200.2021.49	\$ 31.25
200.2021.50	\$ 62.50
200.2021.55	\$ 62.50
200.2022.001	\$562.50
200.2022.005	\$343.75
200.2022.007	\$500.00
200.2022.008	\$818.75
200.2022.010	\$ 37.50
	\$3,487.50

1,068.75

OK to pay 3/17/22 dfs

2,418.75

INVOICE

Comments

James C. Kujawa

Surface Water Solutions LLC

6533 Nedderson Circle

Brooklyn Park, MN 55445-3206

952-456-4091

surfacewatersolutions@outlook.com

Stantec Project #

Invoice Date: April 8, 2022

Invoice Number: 2022-03

Type	Date	Hours	Job	Task	Memo	Amount	Paid	Column
ECWMC	3/13/2022	1.00	Project Reviews	2022-008	Project Review/Email	125.00		
ECWMC	3/14/2022	0.75	Project Reviews	2022-008	Project discussion w P.O.	93.75		
ECWMC	3/14/2022	1.00	Project Reviews	2022-010	Project Review	125.00		
ECWMC	3/15/2022	1.25	Project Reviews	2022-010	Project Review	156.25		
ECWMC	3/16/2022	1.25	Project Reviews	2022-010	Project Review/Findings/Emails	156.25		
ECWMC	3/16/2022	1.75	Project Reviews	2022-012	Project Review and findings	218.75		
ECWMC	3/17/2022	2.25	Project Reviews	2022-012	Project Review/Findings/Emails/phone call	281.25		
ECWMC	3/17/2022	0.50	Project Reviews	2022-029	Project emails/extension	62.50		
ECWMC	3/18/2022	0.40	Project Reviews	2021-028	Wetland buffer update review/Email	50.00		
ECWMC	3/18/2022	0.50	Project Reviews	2022-012	T.S. phone call and project review	62.50		
ECWMC	3/21/2022	0.65	Project Reviews	2020-029	follow up on review comments from City	81.25		
ECWMC	3/21/2022	1.80	Project Reviews	2022-012	Project review	225.00		
ECWMC	3/22/2022	2.00	Project Reviews	2022-012	Project review	250.00		
ECWMC	3/23/2022	2.25	Project Reviews	2022-012	Project review	281.25		
ECWMC	3/23/2022	0.75	Project Reviews	2020-029	follow up on review comments from City-email	93.75		
ECWMC	3/23/2022	0.35	Project Reviews	2022-007	Phone call from JR Hill Engineer	43.75		
ECWMC	3/23/2022	1.25	Project Reviews	2022-012	Project Review	156.25		
ECWMC	3/25/2022	1.25	Project Reviews	2022-012	Project Review	156.25		
ECWMC	3/26/2022	2.00	Project Reviews	2022-012	Project Review findings report	250.00		
ECWMC	3/27/2022	2.00	Project Reviews	2022-008	Revisions review findings updates emails-conference calls	250.00		
ECWMC	3/28/2022	0.35	Project Reviews	2022-001	15.99 extension email	43.75		
ECWMC	3/29/2022	0.50	Project Reviews	2021-049	Revision review	62.50		
ECWMC	3/29/2022	0.50	Project Reviews	2022-008	emailment email and response	62.50		
ECWMC	3/30/2022	3.25	Project Reviews	2021-049	Project Review and findings	406.25		
ECWMC	3/31/2022	0.40	Technical Services	Pre-Project Review	review/Email to Medina -2400 Bantle Farm Rd, Medina	50.00		
ECWMC	4/2/2022	1.00	Project Reviews	2022-008	project review of revisions, findings updates, email	125.00		
ECWMC	4/4/2022	2.25	Project Reviews	2022-007	revision review/Findings updates/Email to applicant	281.25		
ECWMC	4/4/2022	0.25	Technical Services	General	phone discussion with E.M.	31.25		
ECWMC	4/5/2022	0.25	Project Reviews	2022-009	QA/QC for E.M.	31.25		
ECWMC	4/5/2022	0.25	Project Reviews	2022-003	QA/QC for E.M.	31.25		
ECWMC	4/5/2022	0.25	Technical Services	Pre-Project Review	phone conversation Landon Pole? for West Side Tire, Corcoran	31.25		
ECWMC	4/6/2022	1.00	Technical Services	Meetings	Staff Report updates	125.00		
ECWMC	4/6/2022	1.70	Project Reviews	2022-007	4/5 revision review/Findings updates	212.50		
ECWMC	4/6/2022	0.40	Project Reviews	2021-055	QA/QC for E.M.	50.00		
ECWMC	4/7/2022	0.50	Project Reviews	2022-007	ECWMC meeting presentation prep.	62.50		
ECWMC	4/7/2022	0.40	Project Reviews	2022-008	ECWMC meeting presentation prep.	50.00		
Total						4,775.00		

OK to pay dfs

INVOICE

Comments

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

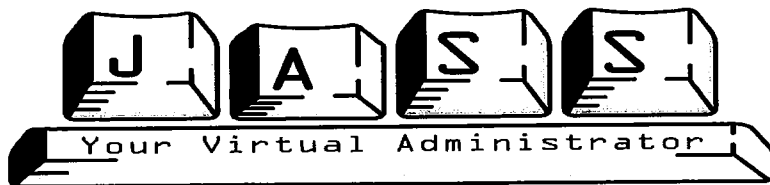
Stantec Project #

Invoice Date: May 12, 2022

Invoice Number: 2022-04

Type	Date	Hours	Job	Task	Memo	Amount	Pat	Column
ECWMC	4/12/2022	2.00	Project Reviews	2021-054	Project review/Findings report	250.00		
ECWMC	4/13/2022	3.75	Technical Services	Meetings	TAC and Regular meetings	458.75		
ECWMC	4/14/2022	0.40	Project Reviews	2022-008	decision update	50.00		
ECWMC	4/14/2022	0.50	Technical Services	General	annual report updates on USGS monitoring station	62.50		
ECWMC	4/14/2022	0.75	Project Reviews	2021-026	review revised plans/email to Medina	93.75		
ECWMC	4/18/2022	0.50	Technical Services	Pre-Project Review	email to Dan Edg re: project review for stream crossin	62.50		
ECWMC	4/24/2022	4.25	Project Reviews	2022-012	review/finding/email 4/18 to 4/24	531.25		
ECWMC	4/25/2022	0.50	Project Reviews	2022-008	respond to email from Kjolhaug	62.50		
ECWMC	4/26/2022	2.80	Project Reviews	2022-001	project review/Findings report/email	350.00		
ECWMC	4/27/2022	2.00	Project Reviews	2022-017	project review/Findings	250.00		
ECWMC	4/28/2022	1.50	Project Reviews	2022-012	Graco conservation easement work-Doug/Jude/Joel	187.50		
ECWMC	4/28/2022	0.50	Technical Services	Pre-Project Review	phone conv w/ E.M. and R.C. meeting update-Cook Lake	62.50		
ECWMC	4/28/2022	2.00	Project Reviews	2022-017	Project review/Findings	250.00		
ECWMC	4/29/2022	0.50	Project Reviews	2021-049	phone call from engineer and 15.99 email extend	62.50		
ECWMC	4/29/2022	2.00	Project Reviews	2022-017	Project review/Findings	250.00		
ECWMC	5/1/2022	4.30	Project Reviews	2022-017	Project review and findings. Email	537.50		
ECWMC	5/2/2022	1.50	Project Reviews	2022-012	easement work-email/ phone call with Corner at samba	187.50		
ECWMC	5/2/2022	0.20	Project Reviews	2021-053	QA/QC for R.M.	25.00		
ECWMC	5/2/2022	0.30	Project Reviews	2022-011	QA/QC for R.M.	37.50		
ECWMC	5/2/2022	2.00	Project Reviews	2022-019	Project review and findings.	250.00		
ECWMC	5/3/2022	0.50	Project Reviews	2022-008	final veg plan revision review-emails to K.M. and MB	62.50		
ECWMC	5/3/2022	0.50	Project Reviews	2022-001	review review/Findings updates	62.50		
ECWMC	5/3/2022	0.25	Project Reviews	2021-028	conference call	31.25		
ECWMC	5/3/2022	0.25	Project Reviews	2022-017	call from J.A. project engineer	31.25		
ECWMC	5/3/2022	0.25	Project Reviews	Meetings	15.99 extend email	31.25		
ECWMC	5/4/2022	1.25	Technical Services	2022-012	staff report for May meeting	156.25		
ECWMC	5/4/2022	2.25	Project Reviews	2022-012	memo for graco conservation easement work-	281.25		
ECWMC	5/4/2022	0.50	Project Reviews	2022-016	QA/QC for R.M.	62.50		
ECWMC	5/4/2022	0.50	Project Reviews	2022-013	QA/QC for R.C.	62.50		
ECWMC	5/5/2022	4.00	Project Reviews	2022-019	Project review and findings. Email	500.00		
ECWMC	5/9/2022	2.25	Project Reviews	2022-012	review of updated revisions-email to C.D. Sambatek	281.25		
ECWMC	5/9/2022	0.20	Project Reviews	2022-017	email review of new outlet elevations/email to JA.	25.00		
ECWMC	5/9/2022	0.50	Project Reviews	2022-001	power point preparation for ECWMC meeting	62.50		
ECWMC	5/9/2022	0.50	Project Reviews	2022-012	power point preparation for ECWMC meeting	62.50		
ECWMC	5/10/2022	1.75	Project Reviews	2022-012	conference call -site visit-project review	216.75		
ECWMC	5/11/2022	2.75	Technical Services	Meetings	ECWMC meeting	343.75		
ECWMC	5/12/2022	1.25	Project Reviews	2022-012	Graco water quality review and email comments	156.25		
ECWMC						0.00		
ECWMC						0.00		
Total						6,462.50		

OK to pay dfs



3235 Fernbrook Lane
Plymouth MN 55447

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

June 1 2022

				Total by Project Area	
Administrative	0.50	65.00	32.50		
Administrative	59.410	70.00	4,158.70		
Admin - virtual	3.220	75.00	241.50		
Office Support	15.00	200.00	3,000.00		
Storage Unit - .47	1.00	169.67	169.67		
Data Processing/File Mgmt	4.00	65.00	260.00		
Drop Box Subscription			0.00		
Archiving			0.00		
Admin - Reimbursable Expense	667.90	1.00	667.90	8,530.270	
Admin - TAC support			0.00		
Admin - TAC support	8.46	70.00	592.20		
Admin - TAC support virtual	1.53	75.00	114.75		
TAC Support - Reimbursable Expense	4.91	1.00	4.91	711.860	
Website			0.00		
Website	0.91	70.00	63.70		
Website - Zoom			0.00		
Website - Reimbursable Expense			0.00		
Web Domain, hosting			0.00	63.700	
Project Reviews - Secre			0.00		
Project Reviews - Admin Specific	8.30	70.00	581.00	581.000	specific
Project Reviews - Admin	16.24	70.00	1,136.80		
Project Reviews - Admin offiste			0.00		
Project Reviews - Admin - File Mgmt			0.00		
Project Reviews - Reimbursable Expense	130.72	1.00	130.72	1,267.520	nonspecific
Floodplain Mapping - Admin	0.63	70.00	44.10		
Floodplain Mapping - Virtual			0.00		
Floodplain Mapping - reimbursable	29.76	1.00	29.76	73.860	
CIPs - General - Secretarial			0.00		
CIPs - Administrative	0.50	70.00	35.00		
CIPs- Offsite Admin			0.00		
CIPs - reimbursables	9.25	1.00	9.25	44.250	
Plan Amendment - Secre			0.00		
Plan Amendment - Admin	1.00	70.00	70.00		
Plan Amendment - Offiste			0.00		
Plan amendment - reimbursable	0.94	1.00	0.94	70.940	
Invoice Total				11,343.400	



United States Department of the Interior

U.S. GEOLOGICAL SURVEY

Upper Midwest Water Science Center

Minnesota Office
2280 Woodale Drive
Mounds View, MN 55112
763.783.3100

Wisconsin Office
1 Gifford Pinchot Drive
Madison, WI 53726
608.828.9901

Michigan Office
5840 Enterprise Drive
Lansing, MI 48911
517.887.8903

May 31, 2022

Ms. Judie Anderson
Elm Creek Watershed Management Commission &
Shinglecreek Watershed Management Board
3235 Fernbrook Lane
Plymouth, MN 55447

Dear Ms. Anderson:

Attached are the signed originals of our standard joint-funding agreement for Elm Creek Conservation Management for the operation and maintenance of a gaging station and water-quality sampling on Elm Creek near Champlin, during the period October 1, 2021 through September 30, 2023 in the amount of \$44,900 from your agency. U.S. Geological Survey contributions for this agreement are \$39,800 for a combined total of \$84,700. Also the Shingle Creek Watershed Commission for the operation, and maintenance of specific conductance and water temperature monitoring instrumentation at Shingle Creek at Queen Avenue in Minneapolis, during the period October 1, 2021 through September 30, 2023 in the amount of \$7,600 from your agency. U.S. Geological Survey contributions for this agreement are \$6,906 for a combined total of \$14,506. Please sign and return one fully-executed original of each to Lisa L Syde-Hagen at lsyde-hagen@usgs.gov.

This is a fixed cost agreement to be billed quarterly via Down Payment Request (automated Form DI-1040). Please allow 30-days from the end of the billing period for issuance of the bill. If you experience any problems with your invoice(s), please contact Angela Hughes by email at amhughes@usgs.gov.

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. We look forward to continuing this and future cooperative efforts in these mutually beneficial water resources studies.

Sincerely,

**JOHN
WALKER**

John F. Walker
Center Director

Digitally signed by
JOHN WALKER
Date: 2022.05.31
15:28:58 -05'00'

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000001534
Agreement #: 22NKJFA203
Project #: NK00LZN, 001MV,LZN03
TIN #: 41-1416985

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the October 1, 2021, by the U.S. GEOLOGICAL SURVEY, Minnesota Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Elm Creek Conservation Management party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation for the operation and maintenance of a gaging station and water-quality sampling on Elm Creek near Champlin, herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$39,800 by the party of the first part during the period
October 1, 2021 to September 30, 2023
- (b) \$44,900 by the party of the second part during the period
October 1, 2021 to September 30, 2023
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs,
in the amount of: \$0

Description of the USGS regional/national program:

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
 - (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.
3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.
4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.
5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.
6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.
7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.
8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (<https://www2.usgs.gov/fsp/>).

U.S. Geological Survey

In Cooperation with
The Elm Creek Watershed Management Commission

Summary of Data Program for Fiscal Years 2022 & 2023 (Oct. 1, 2021 through Sept. 30, 2023)

1) Fiscal Year 2022 (Oct. 1, 2021 through Sept. 30, 2022)

The U.S. Geological Survey will operate a streamgage for computation of streamflow, and collect and analyze water-quality samples manually and by automated sampler. Provisional and approved data will be published at http://waterdata.usgs.gov/mn/nwis/nwisman/?site_no=05287890.

Streamflow computation

A streamgage will be maintained and operated. Discharge measurements will be made to define changes to the stage-discharge relation over the range of flows that occur in order to compute an accurate record of streamflow.

Manual samples

Twelve manual samples will be collected using USGS protocols to obtain samples representative of the stream cross section. Samples will be collected approximately monthly to represent the variations in hydrologic conditions that occur during the year. Physical measurements and laboratory analyses of chemicals to be determined are listed in Table 1.

Automatic samples

A refrigerated automatic sampler will be used to collect 8 composited samples of runoff events. Composite samples will be discharge-weighted and collected during increasing or peak streamflow, when many selected concentrations are expected to be greatest. Samples will be analyzed for the same constituents as manual samples (table 1), excluding volatile suspended solids, water temperature, and dissolved oxygen. Automated sampling will focus on spring-snowmelt (after ground frost and sampler line thaw), and on rainfall runoff, when much of the annual load of many constituents are transported. To minimize nutrient degradation, samples will be processed within 48-72 hours of initial sample collection. The rising limb of hydrographs can exceed 72 hours at Elm Creek, so samples from such rises may be split to minimize nutrient degradation. Consequently, 8 samples may be analyzed in less than 8 runoff events. **If there are opportunities to sample more events, additional auto-samples may be authorized by ECWMC with an amended agreement at a cost of \$1,280 per composite sample.** One quality-assurance sample will be collected to assess cleaning techniques or analytical replication. Program costs are shown in Table 2.

Table 1. Laboratory analyses and physical measurements to be determined at Elm Creek near Champlin, MN

Laboratory Analyses	
Nutrients	Chemical oxygen demand
Total phosphorus	Dissolved chloride
Dissolved phosphorus	
Total ammonia plus organic nitrogen	Physical Measurements
Dissolved ammonia nitrogen	Water temperature (excluding auto-samples)
Dissolved nitrite plus nitrate nitrogen	Specific conductance
Total suspended solids	pH
Volatile suspended solids (excluding auto-samples)	Dissolved oxygen (excluding auto-samples)

Table 2. Program for Federal Fiscal Year 2022

Activity	Total Cost	ECWMC Share	USGS Share
Gaging-station operation, maintenance and daily discharge computation	\$17,750	\$9,300	\$8,450
Water-quality sampling and chemical analyses	\$25,150	\$13,800	\$11,350
Laboratory credit for runoff samples not collected in FY21 due to drought:	-\$1,300	-\$1,300	\$0
TOTAL Fiscal Year 2022	\$41,600	\$21,800	\$19,800

U.S. Geological Survey

2) Fiscal Year 2023 (Oct. 1, 2022 through Sept. 30, 2023)

Details for program components for FY2023 are essentially the same as for FY2022 except where noted.

Streamflow computation

Workplan same as FY2022.

Manual samples

Workplan same as FY2022 and Table 1.

Automatic samples

Workplan same as FY2022 and Table 1.

Program costs for FY2023 are shown in Table 3.

Table 3. Program for Federal Fiscal Year 2023

Activity	Total Cost	ECWMC Share	USGS Share
Gaging-station operation, maintenance and daily discharge computation	\$17,750	\$9,300	\$8,450
Water-quality sampling and chemical analyses	\$25,350	\$13,800	\$11,550
TOTAL Fiscal Year 2023	\$43,100	\$23,100	\$20,000

3) Total Program for combined Fiscal Years 2022 - 2023 (Oct, 1, 2021 through Sept. 30, 2023)

Table 4 summarizes the combined program for both FY 2022 and 2023.

Table 4. Combined Program for Federal Fiscal Years 2022-2023

Activity	Total Cost	ECWMC Share	USGS Share
Gaging-station operation, maintenance and daily discharge computation	\$35,500	\$18,600	\$16,900
Water-quality sampling and chemical analyses	\$50,500	\$27,600	\$22,900
Laboratory credit for runoff samples not collected in FY21 due to drought:	-\$1,300	-\$1,300	\$0
TOTAL, Fiscal Years 2022-2023	\$84,700	\$44,900	\$39,800

elm creek Watershed Management Commission

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Summerwell Maple Grove Project #2022-002

Project Overview:

Location: A 44.11-acre parcel on the southwest corner of the County Road 81 and Maple Grover Parkway in Maple Grove. The Burlington Northern Railroad is on the northeast side of the site.

Purpose: Construct a townhome community in the City of Maple Grove on a 44.11-acre parcel.

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

Applicant: Greystar Development Central, LLC
Address: 750 Bering Drive, Suite 200
Houston, TX 77057

Attention: Ned Dodington
Phone: (832) 269-0535
Email: ndodington@greystar.com

Agent: Ned Dodington
Address: 3800 American Boulevard, Suite
900, Bloomington, MN 55431

Attention: Ned Dodington
Phone: (832) 269-0535
Email: ndodington@greystar.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	February 22, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	February 2, 2022
	<input checked="" type="checkbox"/> City authorization: Maple Grove, MN	February 2, 2022
	<input checked="" type="checkbox"/> Review fee: \$4,050	February 22, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	February 22, 2022

Submittals

- Stormwater Management Plan, dated February 15, 2022, prepared by Loucks, Inc.
 - Stormwater Narrative
 - Existing and Proposed HydroCAD models
 - Existing and Proposed Conditions P8 water quality model
 - Storm sewer design spreadsheet
 - Geotechnical Evaluation Report, dated October 2021, prepared by Braun Intertec Corporation
- Construction Drawings, dated December 27, 2021, prepared by Loucks, Inc.

3. Minnesota Wetland Conservation Act Notice of Application, dated February 3, 2022, prepared by Kjolhaug Environmental Services Company, Inc.
4. Updated Stormwater Management Plan, dated April 1, 2022, prepared by Loucks, Inc.
 - a. Stormwater Narrative
 - b. Existing and Proposed HydroCAD models
 - c. Existing and Proposed Conditions P8 water quality model
 - d. Storm sewer design spreadsheet
5. Updated Construction Drawings, dated April 1, 2022, prepared by Loucks, Inc.
6. Summerwell Watershed Comments, dated April 1, 2022, prepared by Loucks, Inc.
7. Updated Stormwater Management Plan, dated April 13, 2022, prepared by Loucks, Inc.
 - a. Stormwater Narrative
 - b. Existing and Proposed HydroCAD models
 - c. Existing and Proposed Conditions P8 water quality model
 - d. Storm sewer design spreadsheet
8. Updated Construction Drawings, dated April 13, 2022, prepared by Loucks, Inc.
9. Electronic P8 files for proposed and existing conditions, received April 13, 2022, prepared by Loucks, Inc.

Findings

General

1. A complete application was received February 22, 2022. The initial 60-day decision period per MN Statute 15.99 expires April 23, 2022. The decision period was extended for an additional 60 days on April 1, 2022, and now the decision period expires on June 22, 2022.
2. About 28-acres of the existing 44.11-acre parcel is used for row crops with meadow grass and trees around the perimeter. There are no impervious surfaces on the existing site.
3. Four wetlands are present in the parcel:
4. The proposed construction plans consist of constructing residential townhomes, a clubhouse, streets, associated parking and trails, and utilities including stormwater management.
5. There are four biofiltration basins and a NURP pond proposed to meet the Commission's standards for rate control, abstraction, and water quality criteria.
6. All four filtration basins will discharge to the large wetland to the southeast.
7. The proposed construction will disturb 21.33-acres and create 12.93-acres of impervious surfaces (not including proposed sedimentation pond surface).
8. Twenty-three soil borings collected in the project vicinity and largely indicate sandy lean clay as underlying soils throughout the site, with limited seams of clayey sand and sandy silt shown in a few of the borings. Wetland #2, 14.5-acres of apparent open water to the southeast, appears to have a normal water level of 911-feet. Some of the borings show a groundwater level at a similar elevation. Given site elevations, the groundwater table, and inconsistent sandy layers, infiltration is not feasible.
9. There are no Elm Creek Watershed jurisdictional floodplains or stream crossings within the site.

Rule D – Stormwater Management

General

1. The proposed project will disturb 21.33-acres and create 12.93-acres of impervious surfaces, all of which is net, new impervious area.
2. Soil boring logs indicate sandy lean clay as underlying soils throughout the site, with limited seams of clayey sand and sandy silt shown in a few of the borings.
3. These underlying soils are predominantly Hydrologic Soil Group Type C and D (low and very low infiltration capacity).
4. Stormwater will be managed using four filtration basins and a NURP pond.
5. The ultimate discharge location of the site is Elm Creek near its crossing with County Road 81.

Rate Controls

1. Rate control **meets** Commission requirements.
2. The applicant provided proposed HydroCAD model output for the 2-year, 10-year, and 100-year events. 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)
Northwest <i>To Wetland #1</i>	Pre-Project	12.42	22.72	46.07
	Proposed	5.09	10.23	22.39
	Change	-7.33	-12.49	-23.68
Midwest <i>To Wetland #2</i>	Pre-Project	19.09	38.13	80.93
	Proposed	12.93	30.98	62.88
	Change	-6.16	-7.15	-18.05
TOTAL	Pre-Project	30.75	58.26	120.69
	Proposed ¹	18.02	41.21	85.27
	Change	-12.73	-17.05	-35.42

Low Floor Elevations

1. Low floors **meet** Commission requirements.
2. The low floor elevations must be at least two feet above the 100-yr high water level (HWL) and at least one foot above the EOF for the stormwater pond.
3. For the unit located adjacent to both Biofiltration Basin #4 (to the north of the unit) and the east lobe of Wetland A (to the west of the unit), a berm has been created to hydraulically disconnect the unit from the HWL of Wetland A. The low (garage) floor of the unit will still be one foot above the EOF and one foot above the NWL of the wetland. The berm will provide 2 feet of freeboard as it extend 2 feet above the HWL of the wetland.

Operation and Maintenance

The applicant will need to enter a stormwater maintenance agreement with the City of Maple Grove. The city's template stormwater maintenance agreement satisfies the requirements of the Commission.

Abstraction Controls and Water Quality

1. Abstraction and Water Quality controls **meet** Commission requirements
2. Infiltration from 1.1 inches of runoff from impervious areas is not feasible.
3. The applicant proposes to use filtration to meet the Commission's requirement for abstraction.
4. Net, new impervious areas will be 12.93-acres from the site, requiring abstraction of 51,629 cubic feet.
5. The applicant used P8 model for water quality analysis.
6. The applicant met the water quality requirement by providing dead storage of the stormwater basin to hold runoff of a 2.5-in storm event and filtration capacity of 1.1-in of runoff.
7. The average depth of the NURP pond is 4.0-feet, which meets the Commission's standards.

Table 2 Water Quality Summary

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	3,436.4	N/A	46.1	15,311.6
Proposed (w/o BMP's) ¹	497.9	51,629 (required)	54.1	16,463.2
Proposed (w/ BMP's) ¹	2,525.6	52,543	31.3	5,630.1
Change	-910.8	+914 excess	-14.8	-9,681.5

Rule E – Erosion and Sediment Control (plans)

1. Erosion and Sediment Control plan **meets** 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 around project extents
 - c. Note Redundant (double) lines of silt fence are required around the perimeter of Wetland #1 are required and must be spaced at least 5-feet apart ([hyperlink](#)) because there is proposed disturbance within 50-feet of the wetland.
 - d. Catch basin inlet protection.

Rule G – Wetland Alterations

1. Wetland alterations **meet** the Commission's requirements.
2. The city of Maple Grove is the Local Government Unit in charge of administering the Wetland Conservation Act (WCA).

3. Wetlands were delineated by Kjolhaug Environmental Services on behalf of the city
 - a. Wetland 1 located in the northwest corner of the parcel is a 5.37-acre Type 3 wetland
 - b. Wetland 2 located on the eastern side of the project parcel is a 14.5-acre, multiple designation; Types 5, 3, and 1 wetland
 - c. Wetland 3 located in the northeast corner of the project parcel is a 0.15-acre multiple designation, Type 3 and 1 wetland
 - d. Wetland 4 located in the west central side of the project parcel is a 0.18-acre Type 1 wetland.
4. Wetlands 1 and 4 are proposed to be disturbed as part of construction. The impacts to Wetland #1 are incidental and filling of 0.1838-acres to Wetland 4. The required replacement is 0.3676-acres
5. Wetland credits in the amount of 0.4188-acres from the Mader Wetland Bank #1649 within Major Watershed #20 (Mississippi River –Metro) Bank Service Area 7 are proposed for the project.
6. A wetlands alterations plan has been approved.
7. Wetland 1 has two lobes. The eastern lobe is getting reduced hydrology with changes in runoff routing in the proposed condition and a filtration basin is being constructed to the east of the wetland. The applicant will be constructing a clay impermeable barrier so that the wetland does not lose hydrology or drain through the filtration basin. To alleviate concerns from the City and Watershed, the applicant has agreed to monitor the wetland for three years to ensure the hydrology and boundary of the wetland does not change due to construction.

Rule I – Buffer Strips

1. Buffer strips **meet** the Commission's requirements.as follows:
2. The wetland buffer vegetation will meet the Commission requirements for native vegetation establishment and maintenance.
3. Wetland buffer monumentation meets the Commission's requirements.
4. The buffer strip is at least 25-feet wide in all locations with a slope shallower than 6:1 (horizontal: vertical) and meets the Commission's minimum (10 feet) and average (25 feet) standard
5. The city of Maple Grove has wetland buffer monumentation that meets the Commission's standards.

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.
2. Approval is contingent upon an operation and maintenance plan that is approved by the City of Maple Grove.
3. The applicant needs to provide a wetland monitoring plan that includes:
 - a. The installation of two automated, continuous groundwater-level monitoring wells to show that the hydrologic barrier is effective, and the hydrology of the wetland is maintained.
 - b. The plan should state that three-years of data will be provided for the Commission and City to review.

- c. Two of the three years of monitoring data must have normal precipitation as determined by the MN State Climatology Office.
- d. If the City or ECWMC determine that there has been a loss of wetland, the applicant will need to mitigate the wetland loss at a 4:1 replacement.

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



Date 6/2/2022

Attachments

- | | |
|----------|------------------------------|
| Figure 1 | Project Location |
| Figure 2 | Existing Drainage Map |
| Figure 3 | Proposed Drainage Plan |
| Figure 4 | Wetlands in Project Vacinity |

Figure 1 Project Location

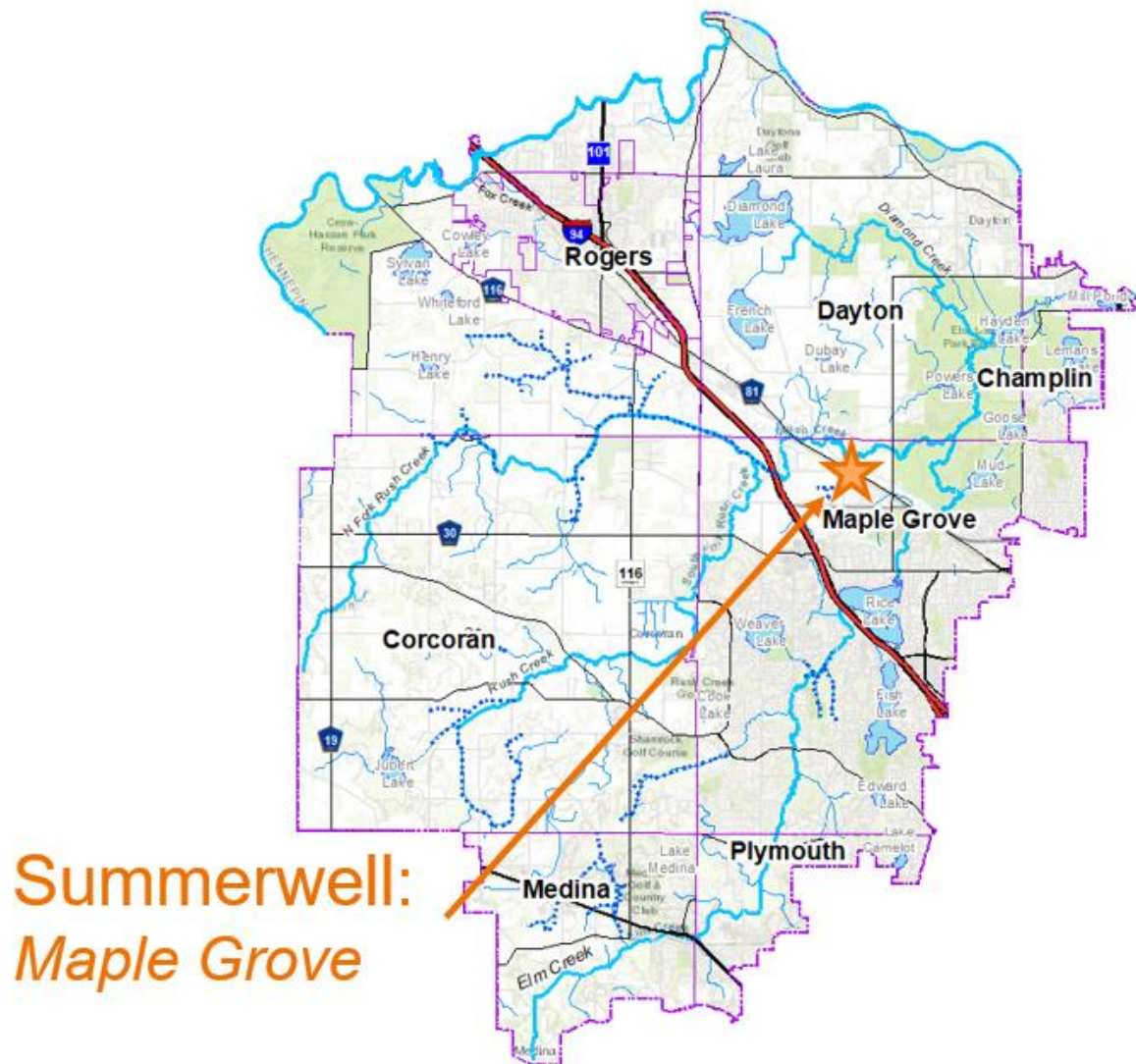
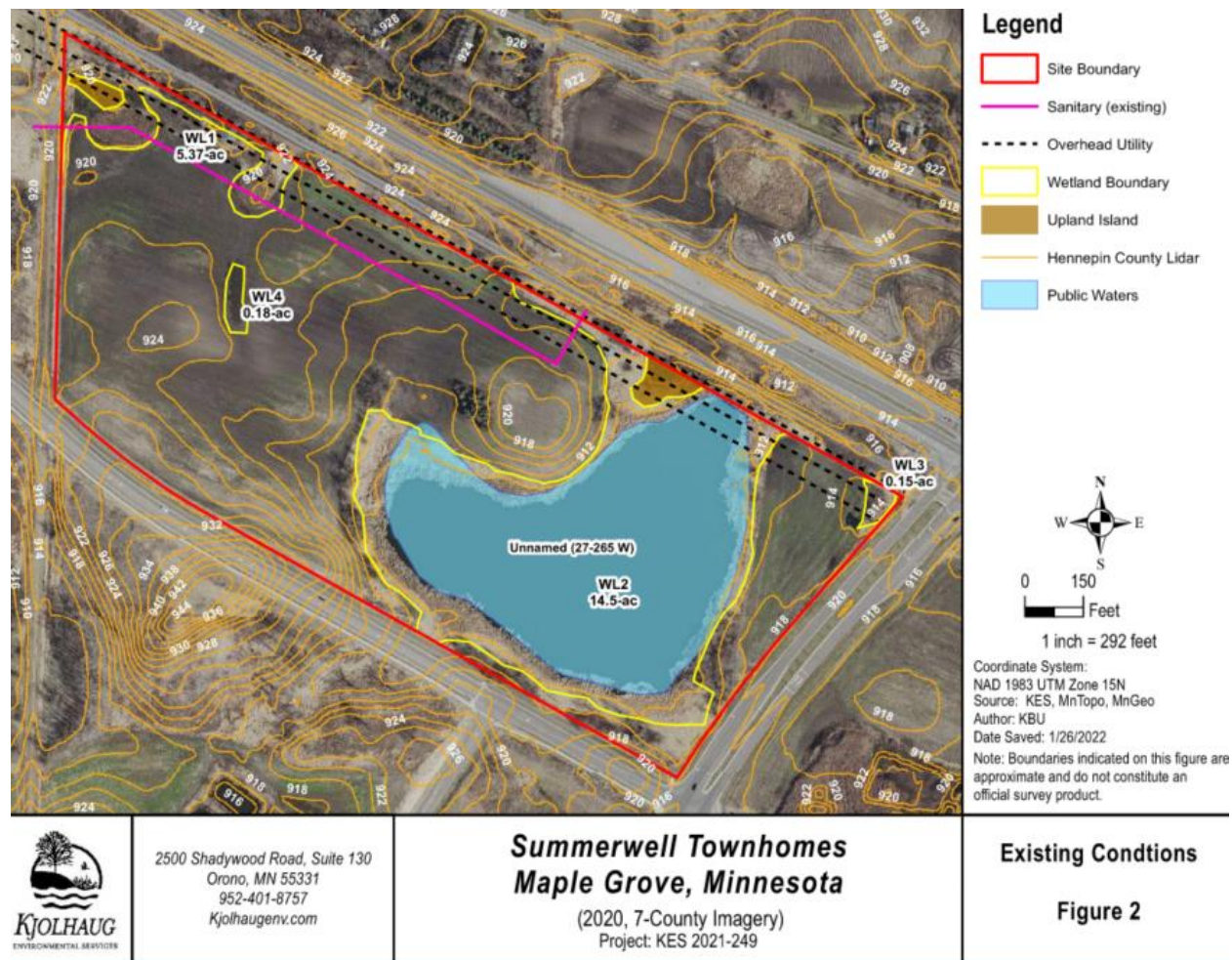


Figure 3 Proposed Drainage Plan



Figure 4 Wetlands in Project Vicinity



elm creek Watershed Management Commission

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Aster Mill Rogers, MN Project #2022-014

Project Overview:

Location: The project site is located between 129th Ave N and Territorial Road, west of Main St and east of Elm Pkwy in the City of Rogers.

Purpose: The proposed development includes construction of 169 single family home lots, 77 townhome lots, private, and public roads.

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

Applicant:	Pulte Homes	Attention:	Dean Lotter
Address:	7500 Flying Cloud Drive Eden Prairie, MN	Phone:	952.219.0982
		Email:	Dean.lotter@pultegroup.com

Agent:	Alliant Engineering	Attention:	Ben Palazzolo
Address:	733 Marquette Ave, Ste 700 Minneapolis, MN	Phone:	651.788.9616 and 612.767.9356
		Email:	bpalazzolo@alliant-inc.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	May 3, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	March 25 2022
	<input checked="" type="checkbox"/> City authorization: Rogers, MN	March 23, 2022
	<input checked="" type="checkbox"/> Review fee: \$4,050	May 3, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	March 25, 2022

Submittals

1. Elm Creek Watershed Management Commission Project Review Fee Schedule
2. Site Plans, prepared by Alliant Engineering, dated March 15, 2022, updated May 11, 2022
 - a. Sheet 1 of 47, Cover Sheet
 - b. Sheets 2 to 4 of 47, Existing Conditions Survey
 - c. Sheets 5 to 9 of 47, Preliminary Plat and Phasing Plan
 - d. Sheets 10 to 20 of 47, Site, Grading Plan
 - e. Sheets 21 to 23 of 47, Pond Details
 - f. Sheets 24 to 28 of 47, Erosion and Sediment Control Plan

- g. Sheets 29 to 36 of 47, Sanitary Sewer, Watermain, Storm Sewer Plan
 - h. Sheet 37 of 47, Wetland Management Plan
 - i. Sheets 38 to 43 of 47, Tree Preservation Plan
 - j. Sheets 44 to 47 of 47, Landscaping Plan
3. Geotechnical Evaluation Report, prepared by Braun Intertec, dated January 17, 2022
 4. Stormwater Management Hydrologic and Hydraulic Study, prepared by Alliant Engineering, dated March 15, 2022, updated May 11, 2022
 5. Riley Purgatory J1 Low Floor Assessment, prepared by Alliant Engineering

Findings

General

1. A complete application was received March 25, 2022. The initial 60-day decision period per MN Statute 15.99 expires May 24, 2022. The initial 60-day decision was extended to 120-days, so the decision period expires on July 23, 2022.
2. The existing site is 79.4 acres, located between 129th Ave N and Territorial Road, west of Main St and east of Elm Pkwy in the City of Rogers. The site currently drains through the row crops to the north and east, and through a wetland to the south.
3. The existing condition of the project site is two lots with associated driveways and outbuildings. The existing impervious area is 0.7 acre.
4. The current project proposes grading 63.47 acres and constructing 169 single family home lots, 77 townhome lots, and associated roadways. The proposed construction will create 24.73 acres of impervious area. The total impervious area post construction will be 25.43 acres.
5. Three detention ponds, among which, two will have filtration shelves are proposed to provide rate, volume control and water quality treatment of the stormwater runoff.
6. Soil borings show sandy silt, lean clay, sandy lean clay, clayey sand 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. Three detention ponds and two of them with filtration bench are proposed to treat most of the runoff from the site. The ponds and three on-site wetlands will be used for rate control. The detention ponds are solely for volume control and water quality.
2. There is 0.7 acre of impervious area prior to construction. After construction, the total impervious area is 25.43 acres. New impervious area is 24.73 acres.
3. Soil borings indicate sandy silt, lean clay, sandy lean clay, clayey sand (ML, CL, and SC unified soil classifications) as underlying soils throughout much of the site and beneath the proposed basin footprints, infiltration is not feasible.
4. The untreated runoff and the filtration basin will both drain to various west and north drainage points.
5. Outlot A pond drains into Wetland 1 in the northwest corner of the site. Wetland 1 has a 28" arch pipe outlet. Wetland 1 is adjacent to offsite property.
6. The detention ponds with filtration bench are modeled in HydroCAD.
7. In the plan, 100-yr back-to-back storm pond surface elevations are labeled. But this is not provided in HydroCAD.

Rate Controls

1. Rate control meets the Commission Rules.
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)
28" Arch RCP	Pre-Project	12.13	15.63	21.95
	Proposed	7.30	11.58	16.30
	Change	-4.83	-4.05	-5.65
NE Ditch	Pre-Project	26.31	45.42	84.71
	Proposed	4.83	23.52	42.17
	Change	-21.48	-21.9	-42.54
Rouillard Blvd	Pre-Project	7.66	13.31	25.00
	Proposed	0	0	0
	Change	-7.66	-13.31	-25.00
SW Pond	Pre-Project	12.90	24.20	48.41
	Proposed	10.72	20.39	41.22
	Change	-2.18	-3.81	-7.19
Verstecker Acker Swale	Pre-Project	6.74	11.51	21.26
	Proposed	1.68	3.10	6.12
	Change	-5.06	-8.41	-15.14
126th Ave N	Pre-Project	18.99	63.82	149.03
	Proposed	0.94	1.59	2.94
	Change	-18.05	-62.23	-146.09
Verstecker Acker Wetland	Pre-Project	18.90	32.33	60.87
	Proposed	1.91	3.58	7.17
	Change	-16.99	-28.75	-53.7
Jed Drive	Pre-Project	0	0	0
	Proposed	1.41	2.41	4.44
	Change	+1.41	+2.41	+4.44
	Pre-Project	19.76	34.20	63.95

Ryan Meadows Pond	Proposed	2.67	4.69	8.87
	Change	-17.09	-29.51	-55.08

Abstraction Controls and Water Quality

1. The applicant proposes to provide abstraction control and water quality treatment by using three detention ponds with two filtration benches on site. Ten sumps will be used as pretreatment to the filtration bench.
2. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible due to low infiltration capacity soils. Soil borings completed by Braun Intertec on January 17, 2022 confirm the design assumptions relating to low infiltration capacity of native soils at the site.
3. The filtration media is iron enhanced sand. The media will provide TSS and soluble phosphorus retentions.
4. New, net impervious areas will be 24.73 acres. This equates to 98,747 cubic feet of abstraction required for a 1.1' runoff event from the new, net impervious areas.
5. Outlot B pond and Outlot D pond provide the filtration for abstraction. Outlot B pond provides an abstraction volume of 74,697 cubic feet and Outlot D pond provides an abstraction volume of 25,339 cubic feet.
6. The applicant used MIDS calculator to calculate removal of TSS and phosphorus. The results are summarized below.

Table 2 Water Quality Summary

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic-feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	38.25	N/A	31.21	5,670
Proposed (w/o BMP's) ¹	83.62	98,747 (required)	68.23	12,395
Proposed (w/ BMP's) ¹	79.27	100,036	24.78	1,308
Change	+41.02	+1,289 (excess)	-6.43	-4,362

Low Floor Elevation

- a. The low floor elevation shall be at minimum two feet above the critical event 100-year elevation and at minimum one foot above the emergency overflow elevation of nearby waterbodies and stormwater ponds. All proposed low floors meet the Commission's standards except for two lots; Lot 49 and Lot 17. For those two Lots, A low floor assessment was provided by Alliant and it has been determined that the low floor elevations are hydrologically and hydraulically disconnected from the adjacent waterbody. In addition to that assessment, the applicant also meets Low Opening standards (Table 3) for these Lots (Lot 49 and 17) showing:
 - i. The Low Opening is at least two feet above the 100-year flood elevation, and
 - ii. The Low Opening is at least one foot above the emergency overflow.

Table 3 Low Floor and Low Opening Analysis

Lot (Low Floor)	Waterbody	NWL	HWL	EOF	Low Opening	Low Floor
Lot 49 (955.2)	Pond Outlot B	948.0	954.2	954.3	964.5	955.2 (Lot 49)
Lot 17 (963.8)	Wetland 11	960.0	963.1	964.3	972.0	963.8 (Lot 17)

Operation and Maintenance

1. Unless City of Rogers 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. Erosion and sediment control meets the Commission's rules.
2. Double roll of silt fence is provided at the edge of the wetland.
3. Perimeter control is provided for the entire site area.
4. Silt fence is proposed to surround the filtration areas post grading.
5. Inlet protections and rock construction entrance from 129th Ave North are labeled on the plan and adequate.
6. Temporary grading of roads toward site to prevent runoff leaving the site is proposed.
7. Seed mix and seeding rates are provided in the erosion control plan.
8. The erosion and sediment control plans include a stormwater pollution prevention plan that is consistent with the MPCA and NPDES general permits.

Rule I – Buffer Strips

Plans **meet** Commission requirements for buffer strips.

1. The site meets the Commission's standards for an average of 25-feet buffer width for lakes and wetlands, with a minimum of 10-feet in width.
2. Additionally, the applicant has provided at least a 15-foot setback for structures from wetlands.

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.
2. The applicant shall provide a Stormwater Maintenance Agreement that 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.

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



5/25/2022

Date

Attachments

- Figure 1 Project Location
- Figure 2 Existing Drainage Map
- Figure 3 Proposed Drainage Plan

Figure 1 Project Location

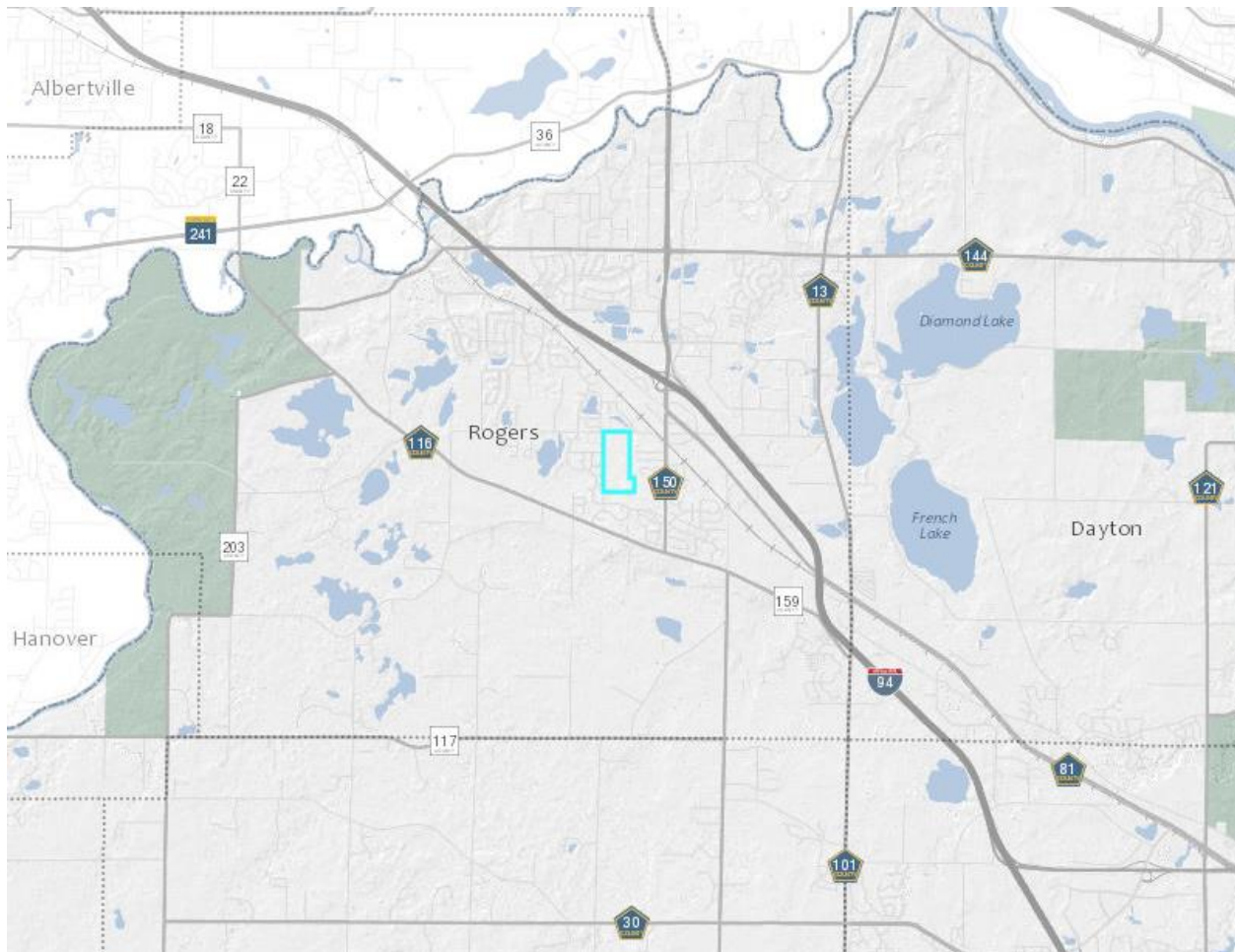


Figure 2 Existing Drainage

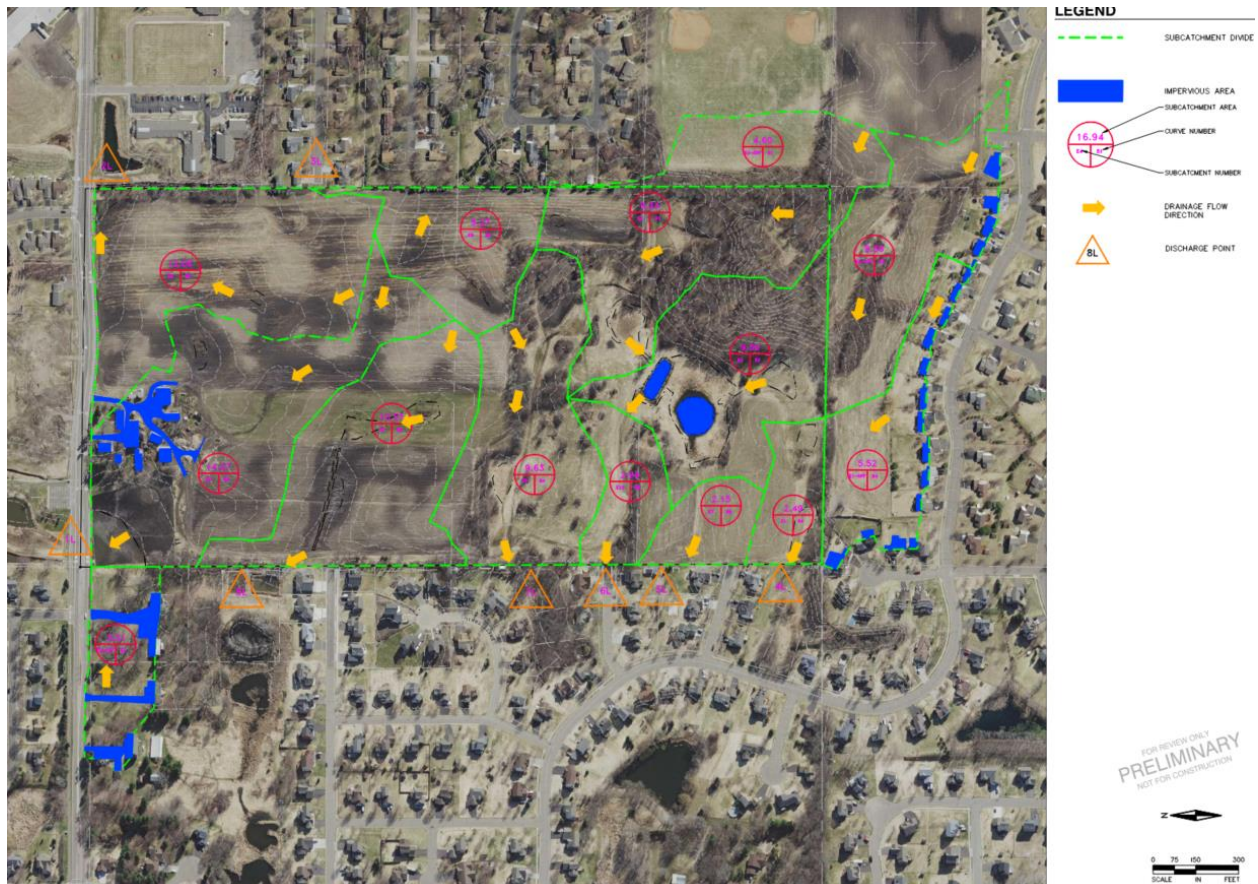


Figure 3 Proposed Drainage



elm creek Watershed Management Commission

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www.elmcreekwatershed.org

CR 47 Reconstruction Phase 1 Plymouth Project #2022-015

Project Overview:

Location: The project site is located on CR 47 from TH 101 to 650' east of Maple Grove Parkway.

Purpose: The proposed project encompasses the reconstruction of CR 47 including a road realignment, sidewalks, storm sewer, and stormwater BMPs. The project also includes the construction of a trail underpass under CR 47 which is located on the east side of the project site.

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

Applicant: The City of Plymouth
Address: 3400 Plymouth Boulevard
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Attention: Ben Scharenbroich
Phone: 763-509-5527
Email: bscharenbroich@plymouthmn.gov

Agent: Kimley-Horn & Associates
Address: 767 N. Eustis Street, Suite 100
St. Paul, MN 55114

Attention: Stephanie Thulien
Phone: 612-431-2644
Email: stephanie.thulien@kimley-horn.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	March 25, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	March 25, 2022
	<input checked="" type="checkbox"/> City authorization: Plymouth, MN	March 22, 2022
	<input checked="" type="checkbox"/> Review fee: \$4,725	March 25, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	March 25, 2022

Submittals

1. Elm Creek Watershed Management Commission Project Review Fee Schedule
2. Site Construction Plans, prepared by Kimley-Horn, dated February 22, 2022, revised on April 25, 2022
3. Elm Creek Watershed Management Commission Request for Plan Review and Approval, dated March 25, 2022

4. *Stormwater Management Plan*, prepared by Kimley-Horn, dated March 21, 2022, revised on April 27, 2022
 - a. *Stormwater narrative*
 - b. *Existing Conditions Drainage Map*, prepared by Kimley-Horn, not dated
 - c. *Proposed Conditions Drainage Map*, prepared by Kimley-Horn, not dated
 - d. *Existing HydroCAD model run for the 2-, 10-, and 100-year events*, dated March 8, 2022, revised on April 27, 2022
 - e. *Proposed HydroCAD model run for the 2-, 10-, and 100-year events*, dated March 8, 2022, revised on April 27, 2022
 - f. *MIDS Model, Existing and Proposed Conditions*, dated February 7, 2022, revised April 27, 2022
 - g. *Geotechnical Exploration and Engineering Review*, prepared by Braun Intertec, dated September 13, 2021
5. *Minnesota Wetland Conservation Act – Notice of Application*, prepared by The City of Plymouth, dated March 11, 2022
6. *Minnesota Wetland Conservation Act – Notice of Decision*, prepared by MNDNR, dated March 30, 2022

Findings

General

1. A complete application was received March 25, 2022.
2. Hennepin County and the City of Plymouth are proposing to reconstruct approximately 4 miles of County Road (CR) 47 over the next few years. Proposed improvements extent from Brockton Lane North/County State Aid Highway (CSAH) 101 on the west end to Northwest Boulevard/CSAH 61 on the east end. This submittal is for Phase 1 of the of the proposed improvements.
3. Phase 1 of the CR 47 reconstruction project extends from CSAH 101 to approximately 300 feet east of Lawndale Lane North. Improvements include the reconstruction of CR 47 into a two-lane urban roadway, new trails along the north and south side of the road, utility updates, and stormwater management BMPs. The project also includes a walking trail underpass under CR 47 on the east end of the project site.
4. Stormwater runoff generated from the site will be treated by an expanded stormwater pond/filtration basin on the west end of the site and two other filtration basins, one in the middle of the proposed site and one on the east end of the site.
5. The total new and reconstructed impervious area will be 9.19 acres resulting in a net increase in impervious area of 1.54 acres. Stormwater will be collected in storm sewer pipes and conveyed to the three proposed stormwater treatment facilities.
6. There are three separate runoff discharge points throughout the site, one on the very west end of the project within the Westin Ridge development, one in the middle of the project that discharges south to a wetland area, and one on the very east end of the project that discharges directly to Elm Creek. It is noted that although these are separate discharge locations the drainage patterns for each ultimately end at Elm Creek.
7. There is no FEMA floodplain or Elm Creek jurisdictional floodplain within the project limits.
8. Natural wetlands were identified within the project limits and have been identified in the submitted wetland delineation and mitigation report.

Rule D – Stormwater Management (plans)

Rate Controls

Rate control measures **meet** Commission standards.

1. Rate control for the site was provided by an existing expanded filtration basin, and two new filtration basins prior to discharging to adjacent wetlands and Elm Creek.
2. The applicant provided proposed HydroCAD model output for the 2-year, 10-year, and 100-year events which are summarized in Table 1.
3. Drawdown times meet Commission standards.
4. It is noted that the discharge rate directly to Elm Creek (Discharge Point 10) is greater than the existing condition. However, rates from all discharge points flow to Elm Creek, so overall the project will greatly reduce rates to Elm Creek, as shown in Table 1.

Table 1 Rate of Discharge Leaving Site

Discharge Point	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
1	Pre-Project	27.79	49.50	87.59
	Proposed	26.18	47.46	87.73
	Change	-1.61	-2.04	+0.14
2	Pre-Project	4.77	8.04	15.04
	Proposed	0.00	0.00	0.00
	Change	-4.77	-8.04	-15.04
3	Pre-Project	7.27	12.90	25.24
	Proposed	0.00	0.00	0.00
	Change	-7.27	-12.90	-25.24
4	Pre-Project	12.29	22.32	44.51
	Proposed	6.88	12.17	29.50
	Change	-5.41	-10.15	-15.01
5	Pre-Project	2.33	4.62	9.91
	Proposed	1.12	2.23	4.78
	Change	-1.21	-2.39	-5.13
6	Pre-Project	7.52	12.91	24.55
	Proposed	0.00	0.00	0.00
	Change	-7.52	-12.91	-24.55

7	Pre-Project	6.07	10.97	21.76
	Proposed	1.78	7.50	18.24
	Change	-4.29	-3.47	-3.52
8	Pre-Project	0.75	1.49	3.19
	Proposed	0.22	0.43	0.92
	Change	-0.53	-1.06	-2.27
9	Pre-Project	3.96	6.21	10.97
	Proposed	1.55	2.44	4.40
	Change	-2.41	-3.77	-6.57
10	Pre-Project	1.85	3.17	6.00
	Proposed	3.01	4.24	7.02
	Change	+1.16	+1.07	+1.02
Total to Elm Creek	Pre-Project	74.60	132.13	248.76
	Proposed	40.74	76.47	152.59
	Change	-33.86	-55.66	-96.17

Low Floor Elevations

Low floor elevations for structures **meets** Commission standards and have 2-feet of freeboard above the high-water level and are at least one foot above the EOF.

BMP Name	EOF (feet)	100-year Flood Elevation	Low Floor of Hydraulically Connected Structure (feet)
BMP #1	962.0	960.11	963.6
BMP #2	953.0	952.68	958.9
BMP #3	934.0	933.24	N/A

Abstraction Controls

Abstraction controls **meet** Commission requirements.

1. Infiltration of the 0.55-inches of runoff from the new and reconstructed impervious areas is accomplished by the expanded filtration basin BMP #1 and two other filtration basins BMP #2 and BMP #3.
2. The total new and reconstructed impervious area will be 9.19 acres resulting in a net increase in impervious area of 1.54 acres (67,082 SF).

- The project is required to provide 0.55-inches of abstraction based on the new and reconstructed 400,316 SF of impervious surface in the amount of 0.42 acre-feet (18,348 cubic feet).
- The applicant intends to provide abstraction control and water quality treatment by expanding an existing filtration basin within the Westing Ridge Development and two additional filtration basins throughout the project site.

Table 2 Summary of Abstraction Credits

BMP Practice	Abstraction Comments	Abstraction Credit (acre-ft)	Abstraction Credit (cubic feet)
BMP #1	Credits based on Water Quality Volume	0.06	2,614
BMP #2	Credits based on Water Quality Volume	0.65	28,314
BMP #3	Credits based on Water Quality Volume	0.40	17,424
TOTAL	-	1.11	48,352

Water Quality

Water quality controls **meet** the Commission's standards.

- The applicant intends to provide abstraction control and water quality treatment by expanding an existing filtration basin within the Westin Ridge Development and two other filtration basins throughout the project site.
- The applicant used MIDS models to demonstrate water quality compliance for the project. The results from the model are listed in Table 3 below.

Table 3 Abstraction Control and Water Quality Criteria Summary¹

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic-feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	33.8	0.0	27.6	5,011
Proposed (w/o BMP's)	36.2	6,149 (required)	29.5	5,360
Proposed (w/ BMP's)	31.6	48,352	11.9	363
Change	-2.2	+42,203 (excess)	-11.9	-4,648

¹ Analysis completed in MIDS calculator by ECWMC technical staff

- The proposed filtration basins and pretreatment structures meet the no increase in total phosphorus and total suspended solids requirement for the site.

Operation and Maintenance

The applicant has stated that City of Plymouth will be responsible for the long-term operation and maintenance of all stormwater management practices used within the property.

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. Stabilized construction entrance
 - b. Silt fence
 - c. Biorolls
 - d. Double (redundant) silt fence adjacent to delineated wetland boundaries
 - e. Catch basin inlet protection
 - f. Stabilization of disturbed soil areas.

Rule G – Wetland Alteration

Wetland alterations **meet** the Commission's requirements

1. Approximately 0.28 acres of regulated wetlands will be mitigated through the purchase of wetland bank credits from the LGRWRP.

Rule H – Bridge and Culvert Crossings

Bridge and culvert crossing alterations **meet** the Commission's requirements

1. There are three proposed culvert replacements throughout the project:
 - a. STR-402 to STR-403 - The existing pipe is a 24" PVC and drains to the south. Proposed conditions will be replacing the pipe with a 24" RCP and just adjusting inverts to match proposed grading. Existing slope is 0.1%, proposed slope is 0.2%. Existing upstream and downstream inverts are 958.82' and 958.67' respectively. Proposed upstream and downstream inverts are 959.25' and 958.95' respectively. Using Manning's equation, existing flow capacity is 10.4 cfs and will increase in proposed conditions to 12.0 cfs. Existing hydraulic capacity will be maintained in proposed conditions.
 - b. STR-133 to STR-136 - The existing pipe is a 15" PVC based on the Fields at Meadow Ridge as-built plans and drains to the south. The pipe takes drain tile discharge and some overflow from the north raingarden. An additional outlet from the raingarden also drains to the east into a filtration basin. The raingarden only takes a small portion of Troy Lane and backyard drainage. Proposed conditions will be replacing the pipe with a 15" RCP. Existing slope is 2.0%, proposed slope is 0.2%. Using Manning's equation, existing flow capacity is 9.8 cfs and will decrease in proposed conditions to 3.1 cfs.
 - c. STR-409 to STR-410 - The existing pipe is a 15" RCP and drains to the north connecting two wetlands. Proposed conditions will be replacing the pipe with a 15" RCP and adjusting inverts to match proposed grading. Existing slope is 0.13%, proposed slope is 0.35%. Existing upstream and downstream inverts are 925.74 and 925.61, respectively. Proposed upstream and downstream inverts are 926.83' and 926.30' respectively. Using Manning's equation, existing flow capacity is 2.5 cfs and will increase in proposed conditions to 3.8 cfs.

Rule I – Buffer Strips

Plans **meet** Commission requirements for buffer strips.

1. The site meets the Commission's standards for an average of 25-feet buffer width for lakes and wetlands, with a minimum of 10-feet in width.
2. Wetland buffer signage at wetland buffer strips outside of right-of-way will be determined by City representatives and contractor.

Recommendation

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



5/31/2022

Date

Attachments

- | | |
|----------|---|
| Figure 1 | General Project Location |
| Figure 2 | Project Location |
| Figure 3 | Existing Drainage Map |
| Figure 4 | Proposed Drainage Plan |
| Figure 5 | Annotated Erosion and Sediment Control Plan |
| Figure 6 | Wetlands in Project Vicinity |

Figure 1 General Project Location

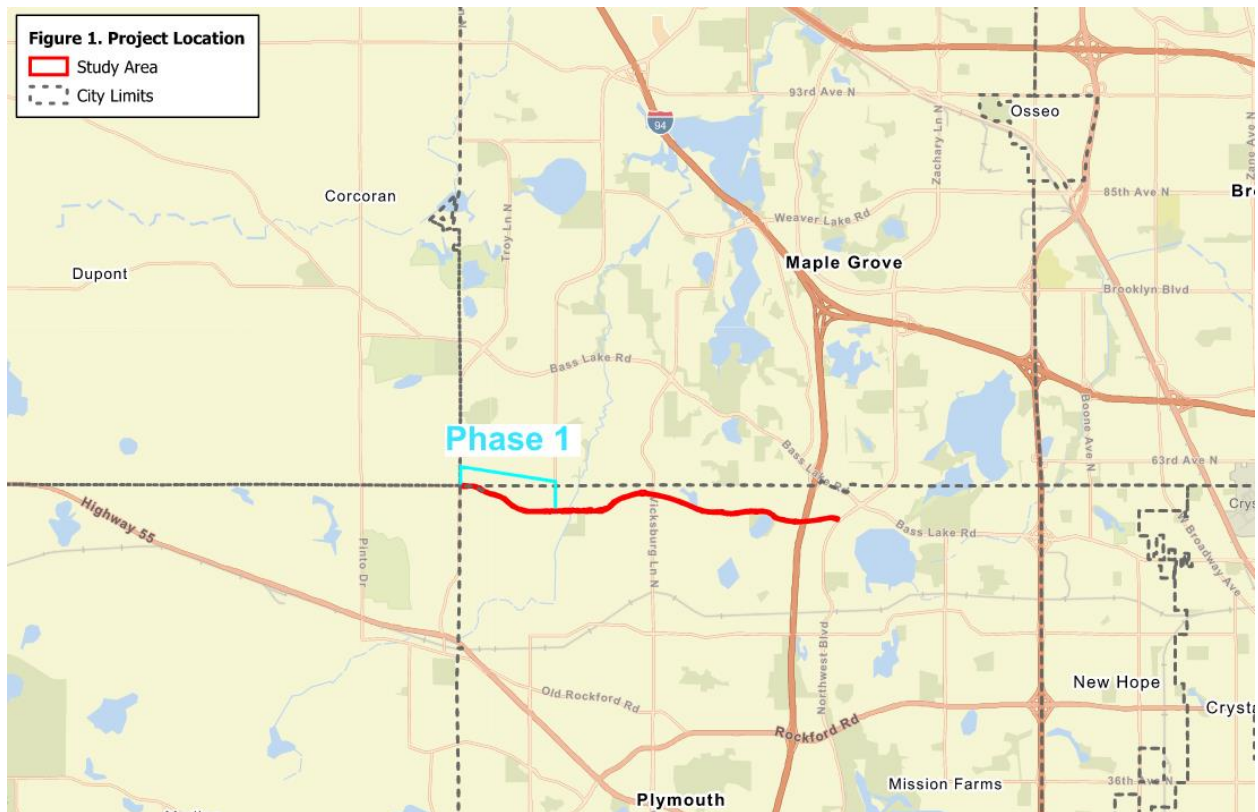


Figure 2 Project Location

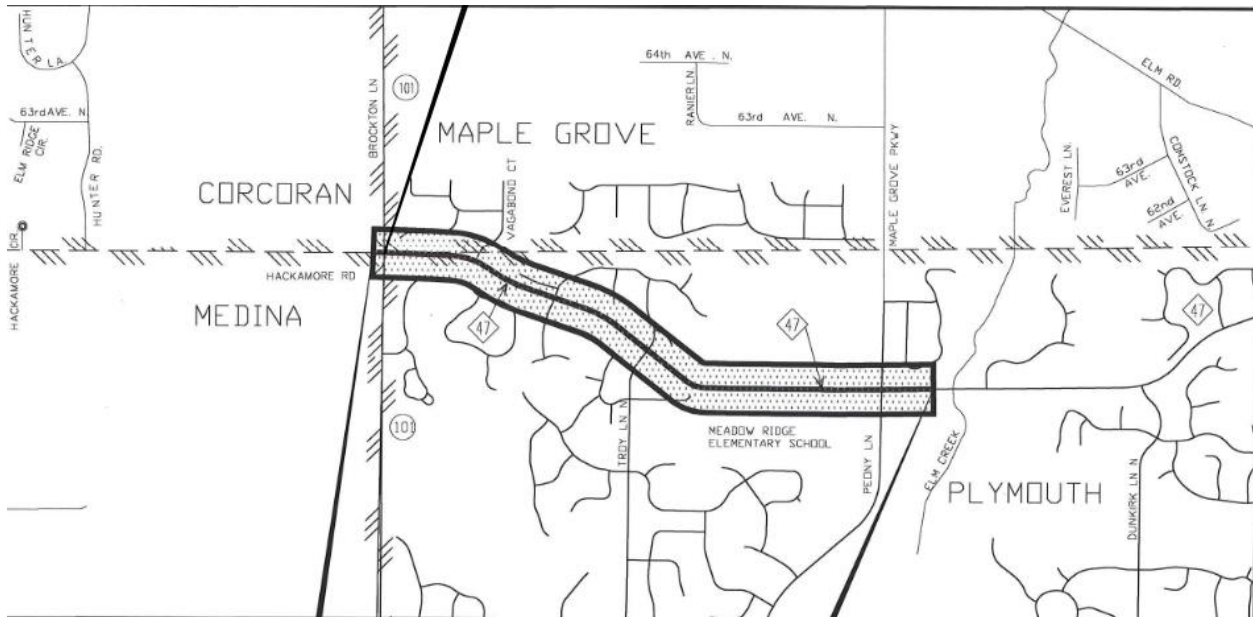


Figure 3 Existing Drainage Map

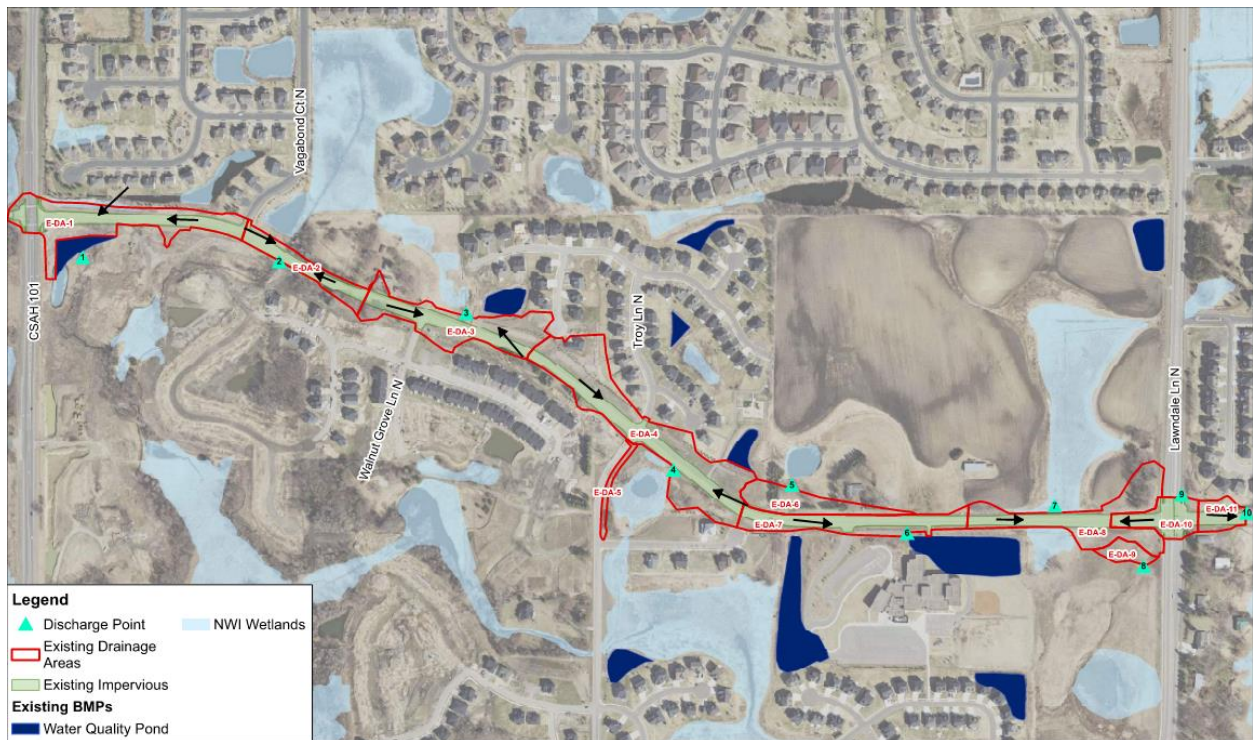
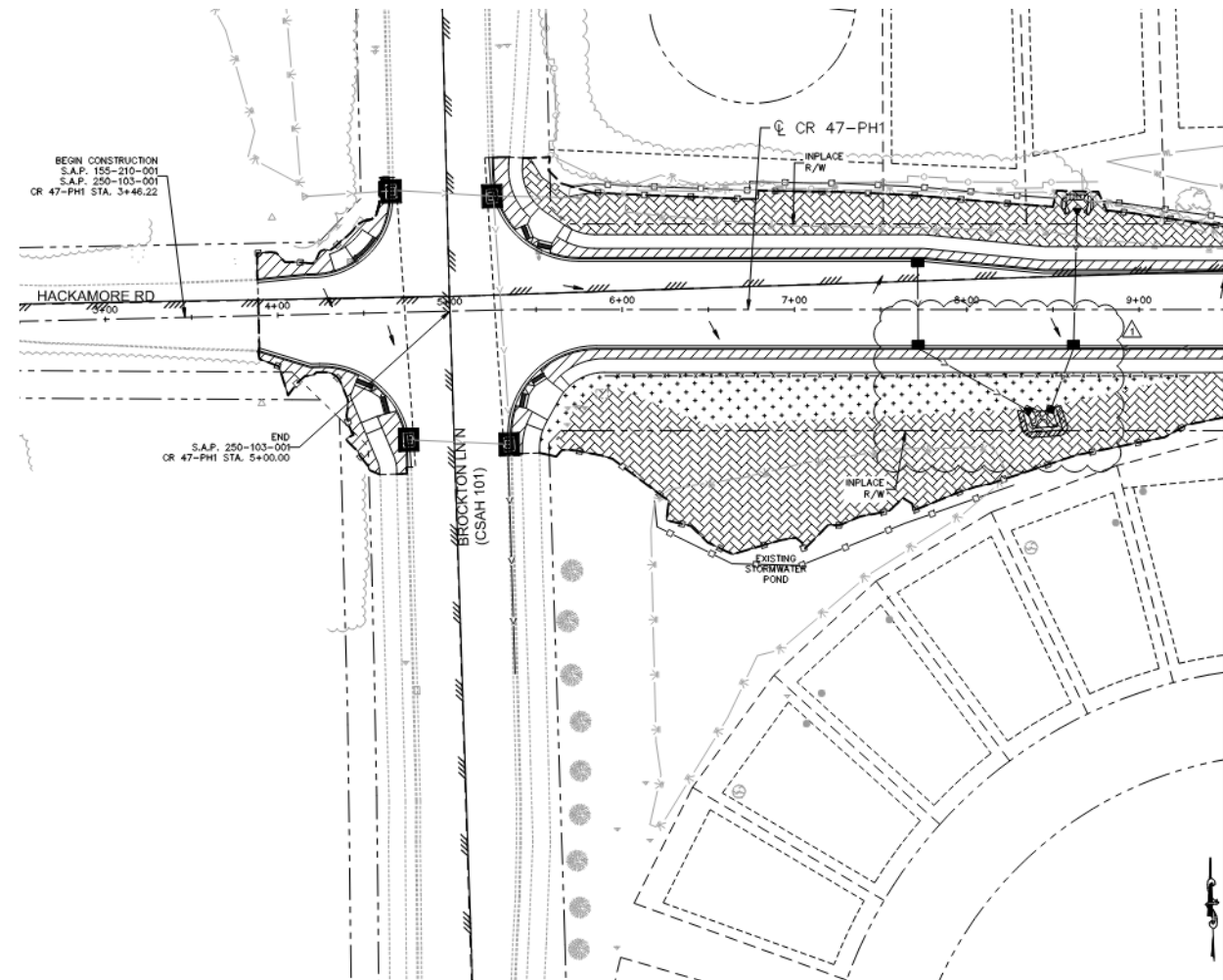
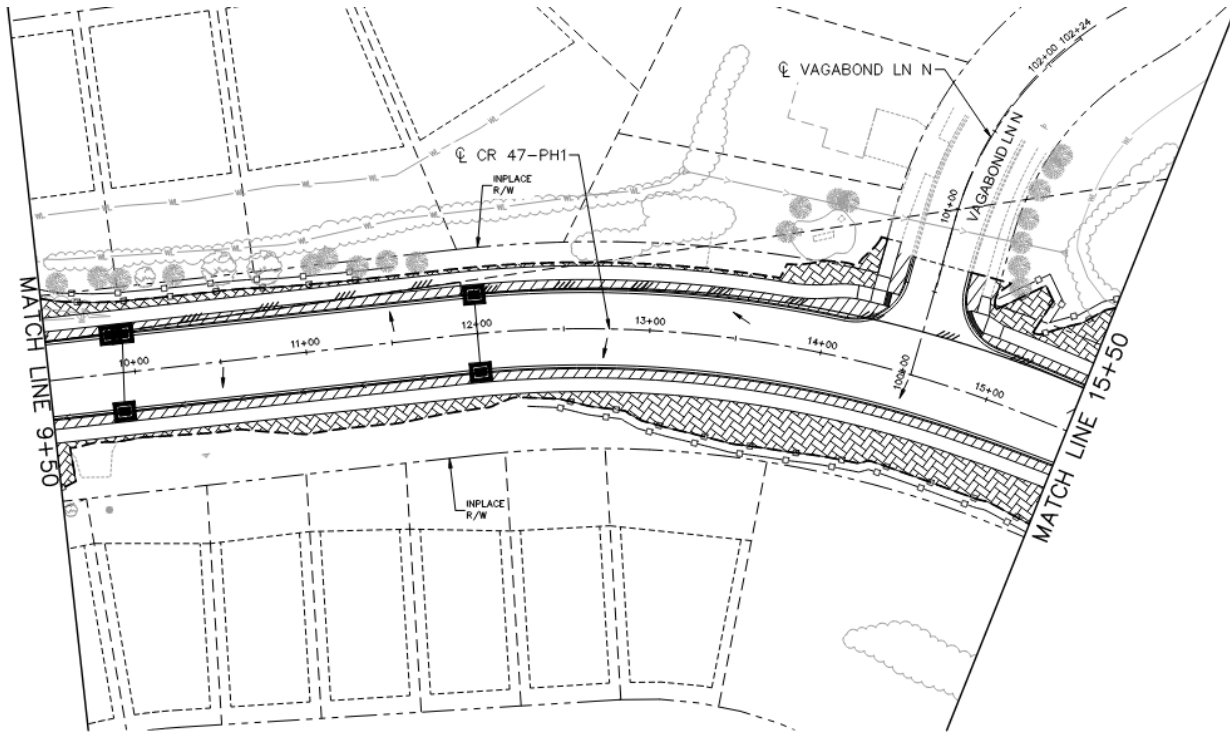


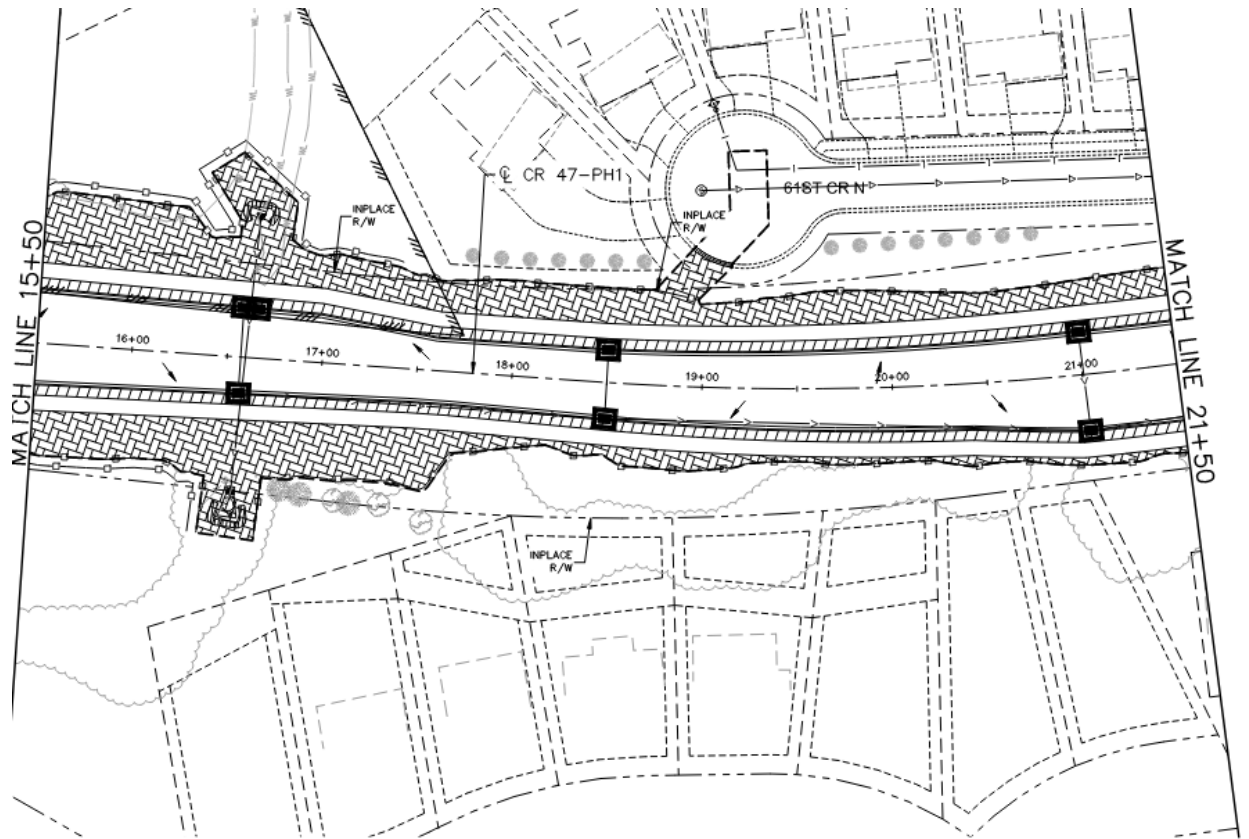
Figure 4 Proposed Drainage Plan

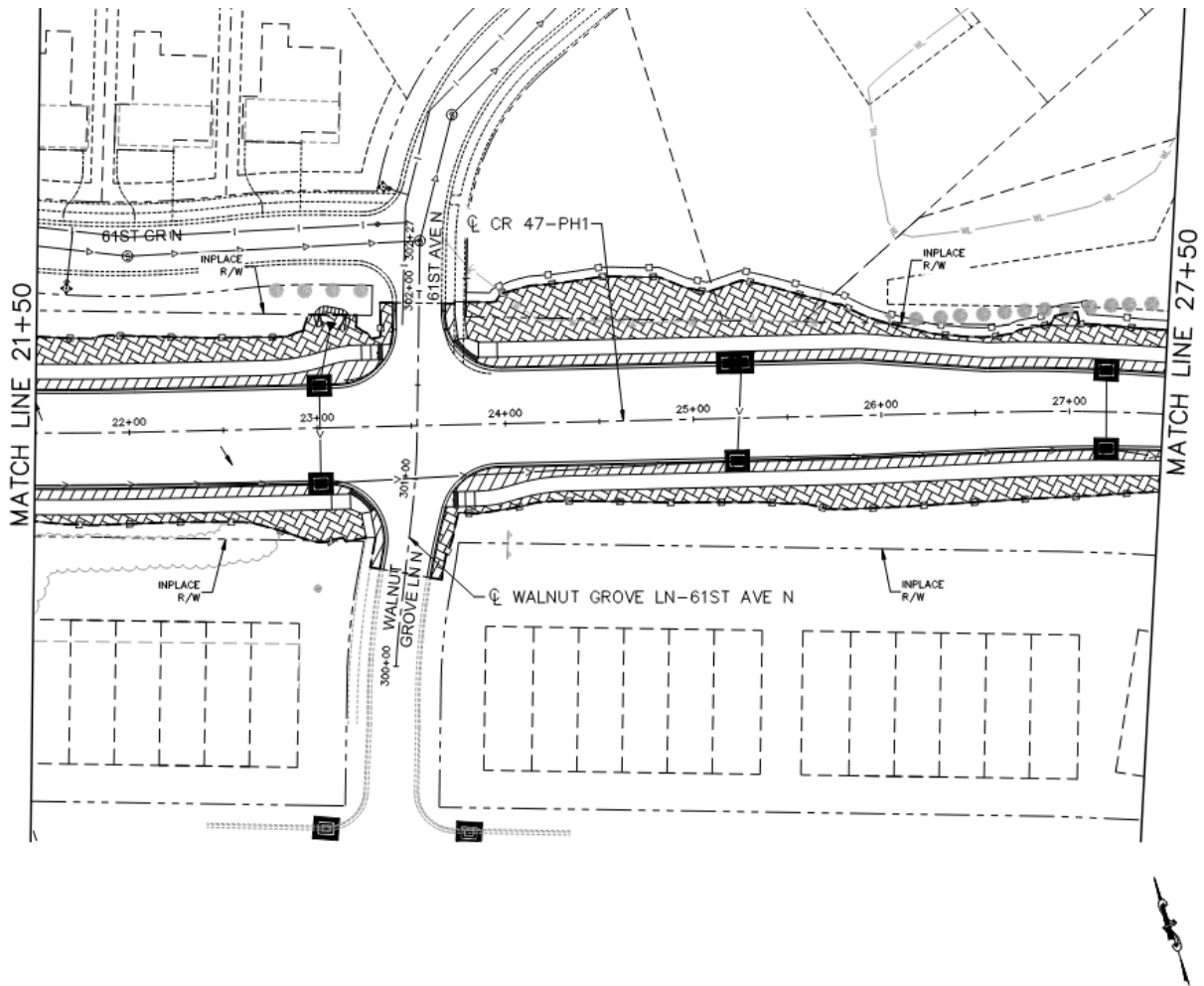


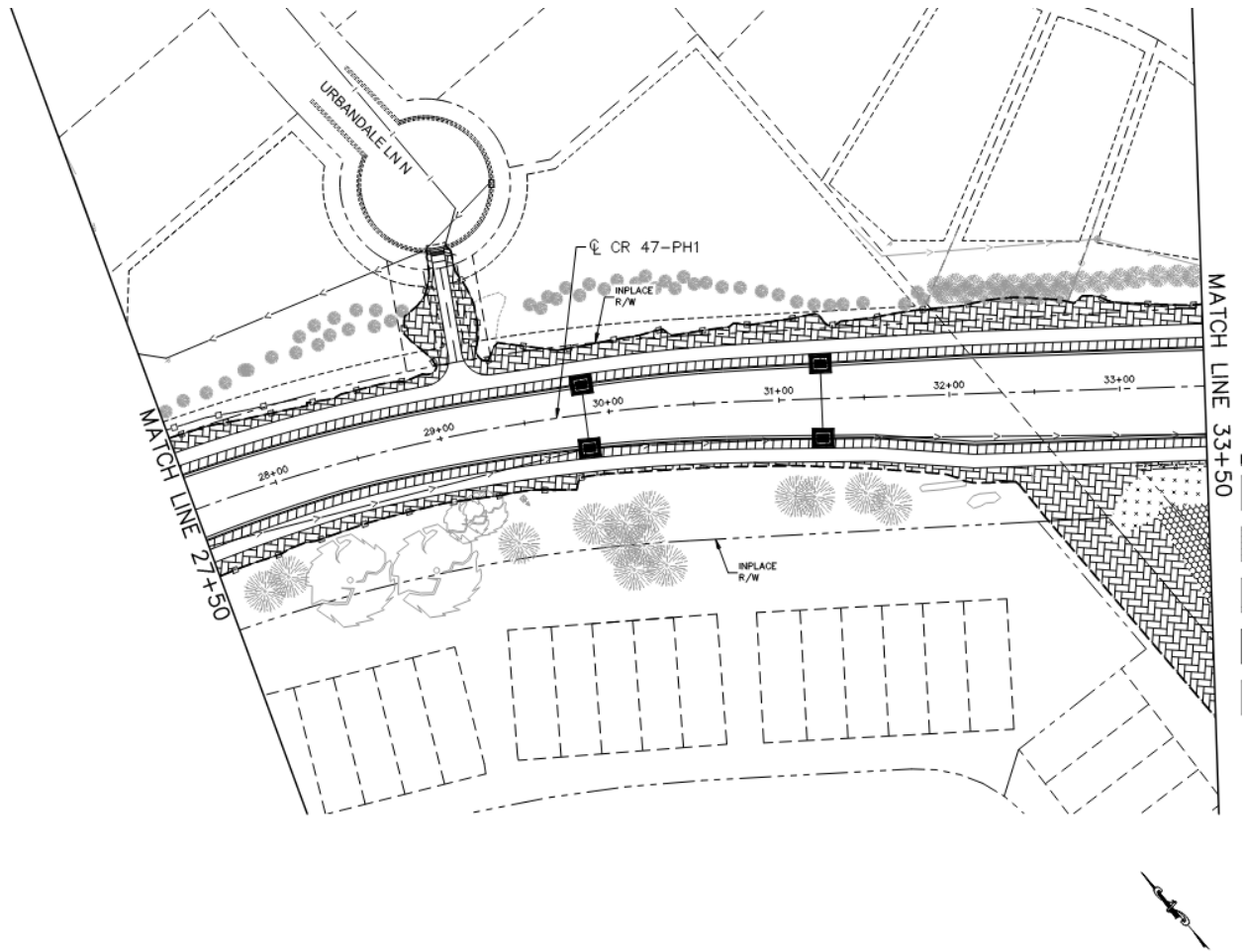
Figure 5 Annotated Erosion and Sediment Control Plan

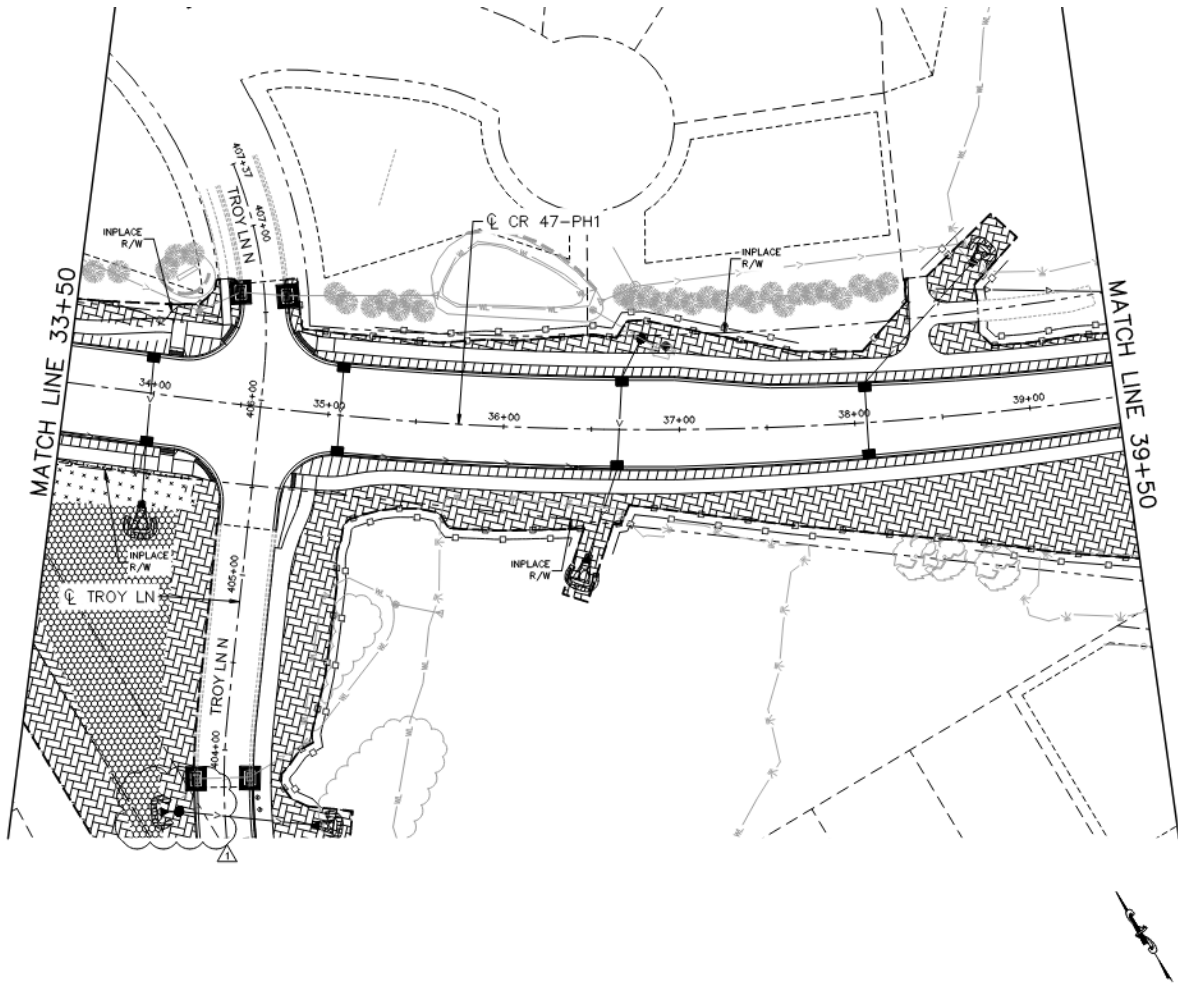


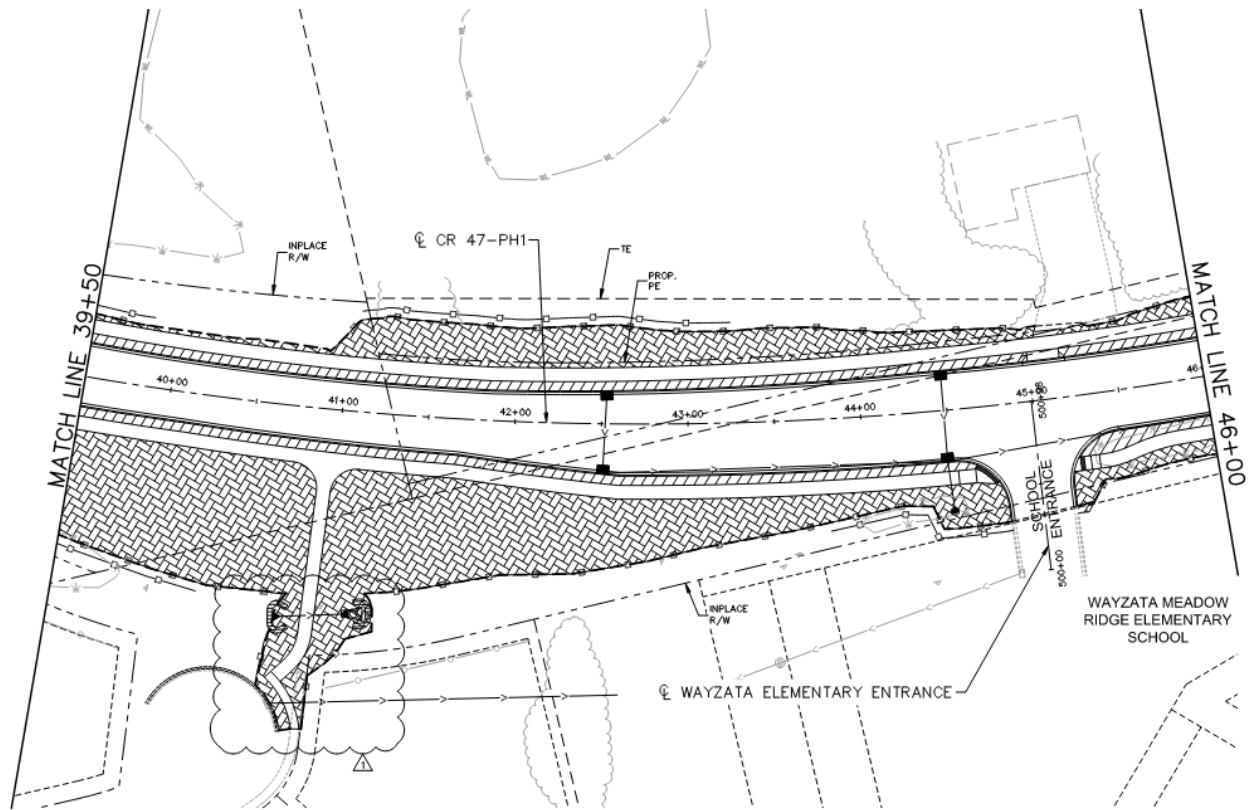


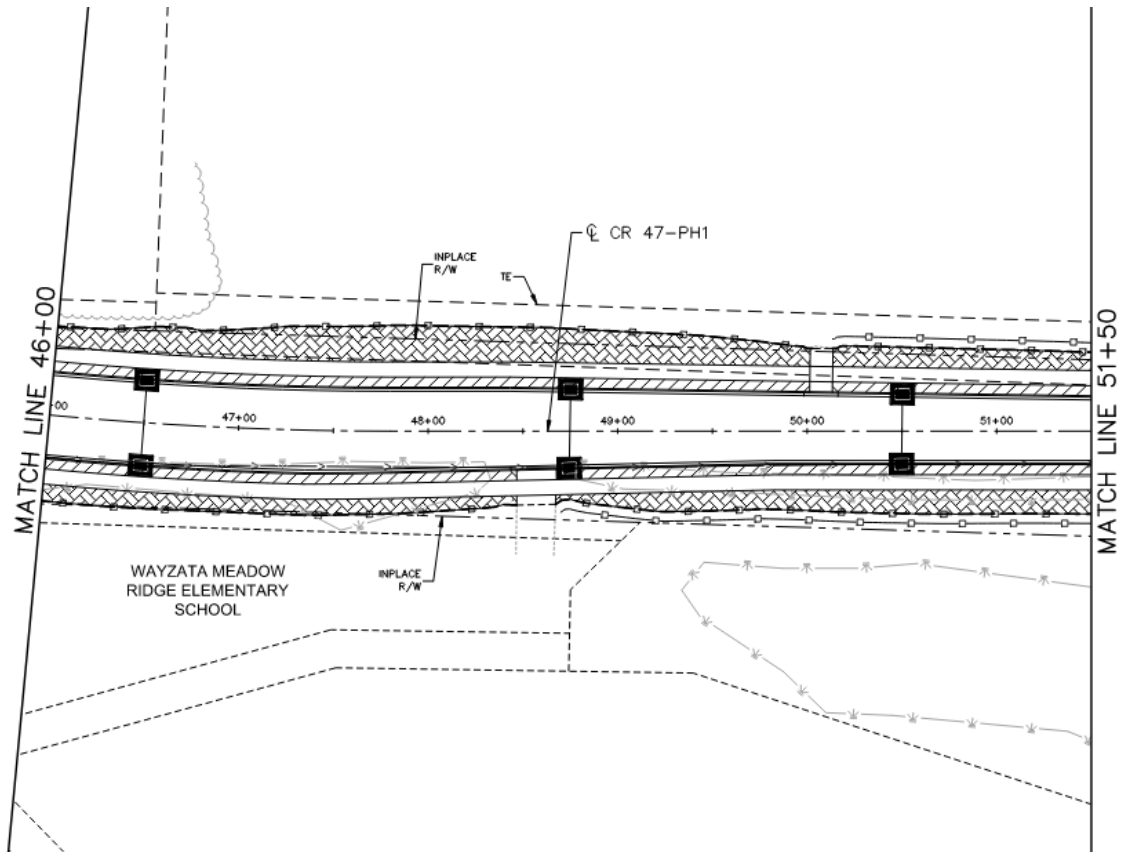


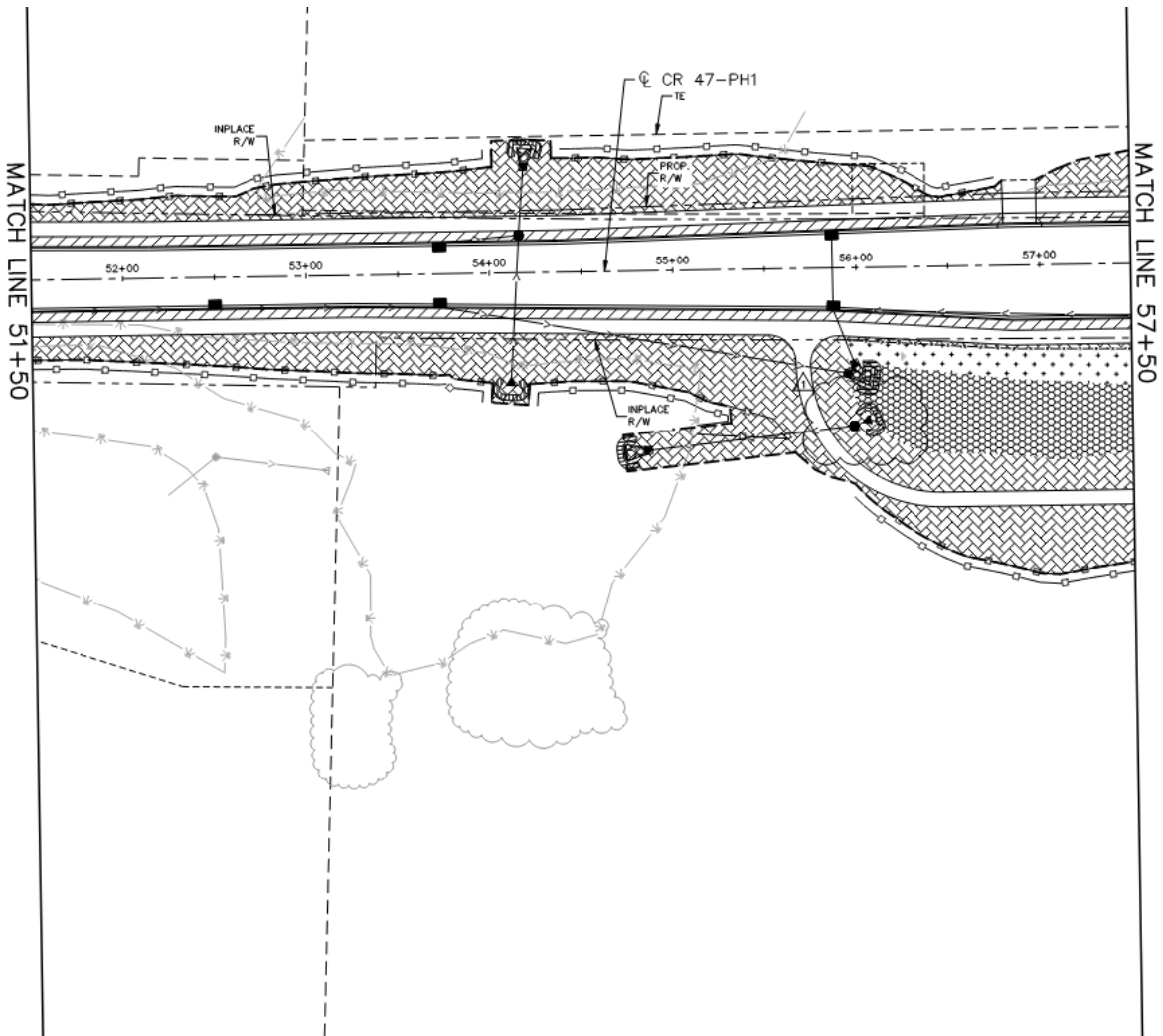


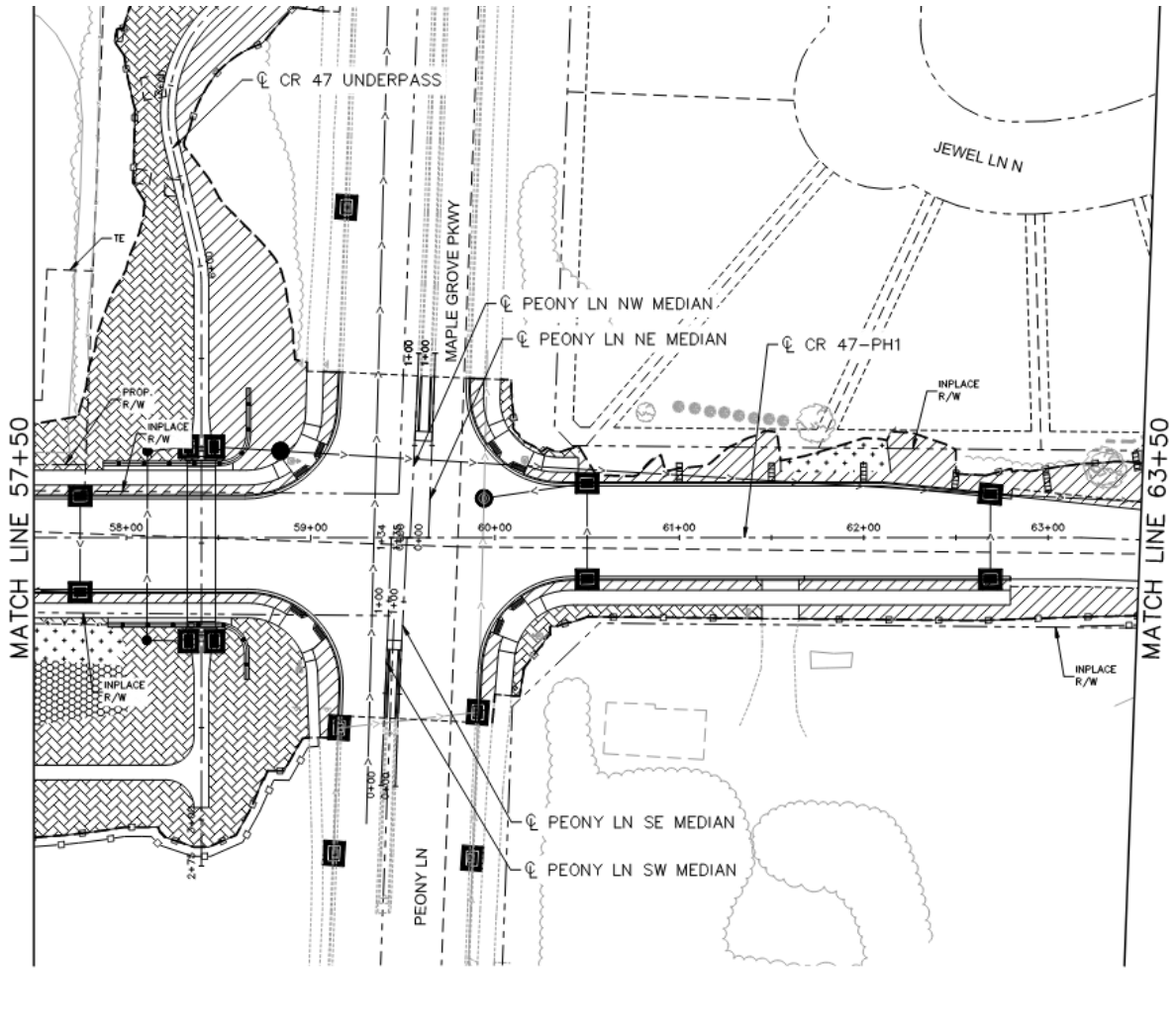


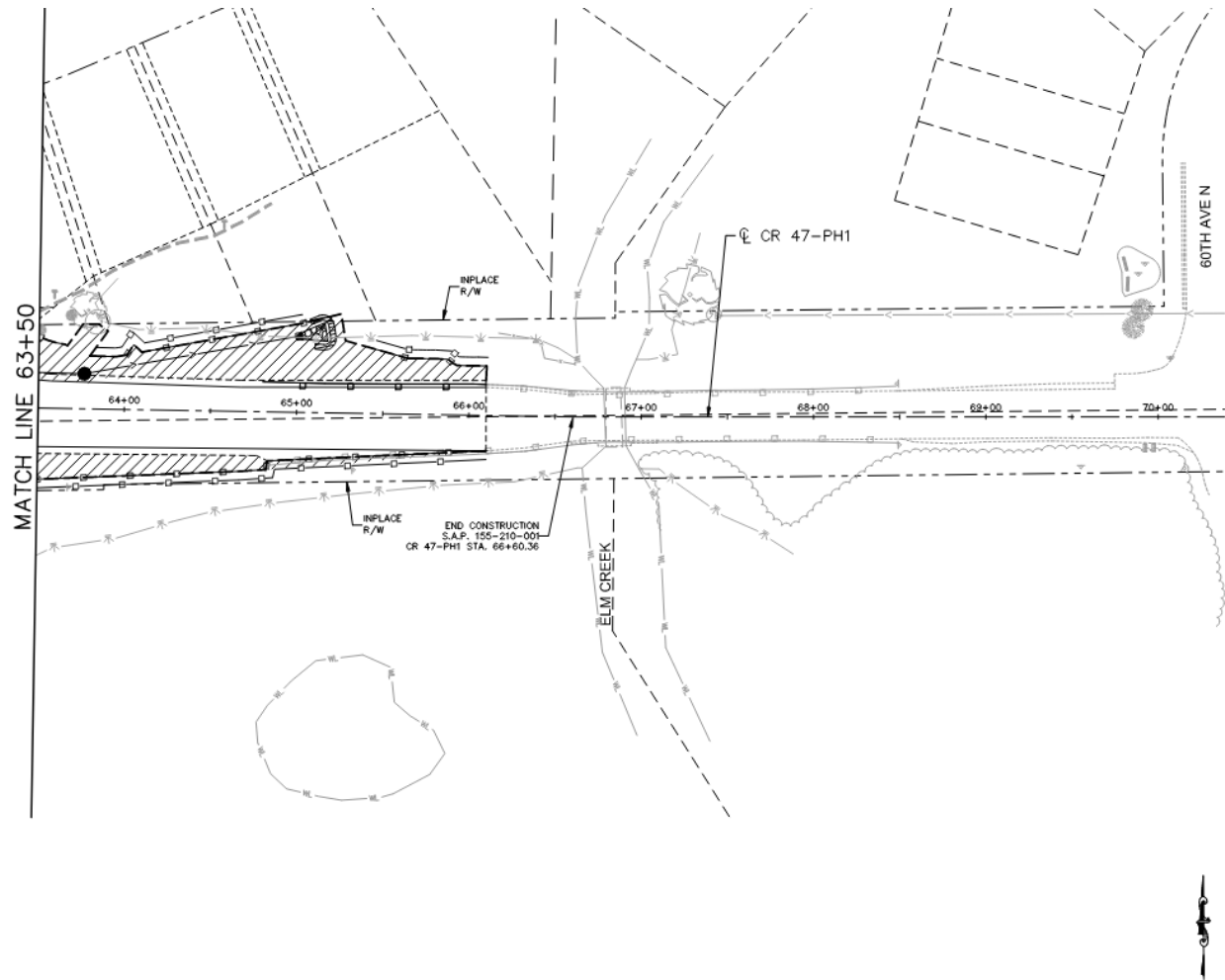














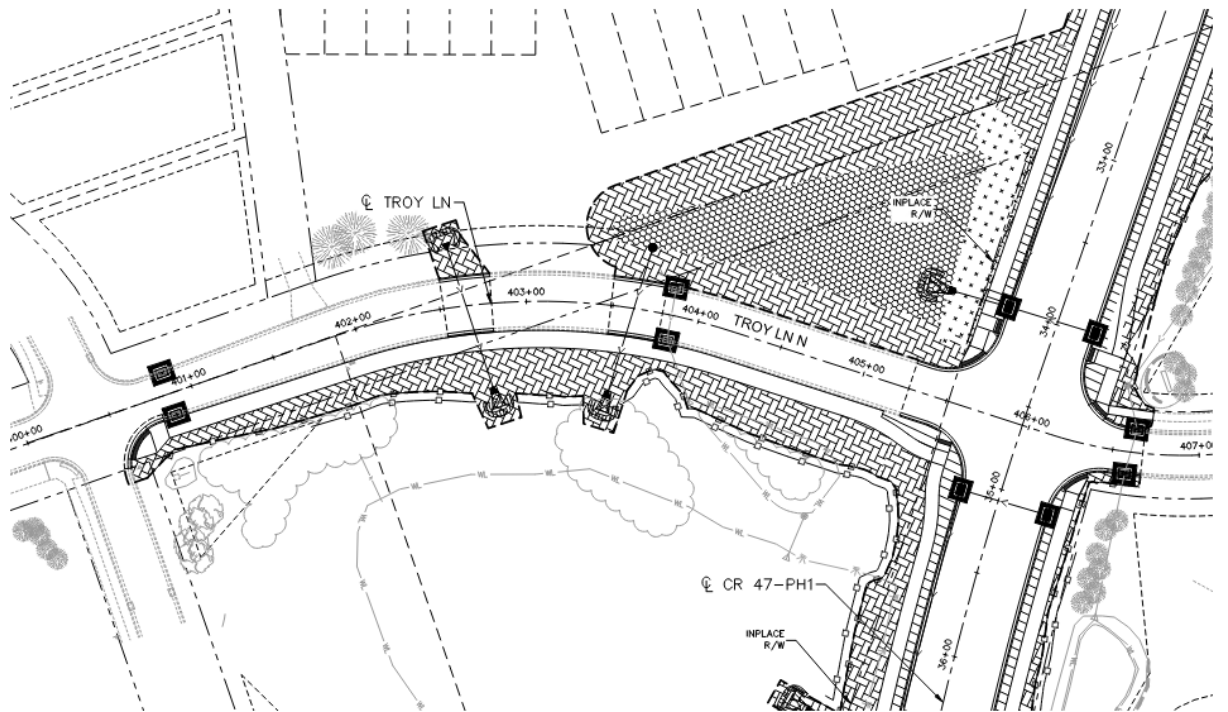


Figure 6 Wetlands in Project Vicinity



elm creek Watershed Management Commission

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

City Center Drive Corcoran Project #2022-017

Project Overview:

<i>Location:</i>	Approximately 35 acres adjacent to and east of CR 116, running from the south access drive to the Corcoran City Hall south approximately ¼ mile.		
<i>Purpose:</i>	Provide necessary infrastructure and regional stormwater system for the ultimate development of approximately 35 acres. The plan proposes to grade and construct City Center Drive, 79 th Place, CR 116 turn Lanes, and a linear city park and trail along CR 116.		
<i>WMC Rules</i>	X	Rule D	Stormwater Management
<i>Triggered:</i>	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

<u>Applicant:</u>	City of Corcoran	<u>Attention:</u>	Kevin Mattson
<u>Address:</u>	8200 County Road 116 Corcoran, MN 55340	<u>Phone:</u>	763-420-2288
		<u>Email:</u>	kmattson@corcoranmn.gov
<u>Agent:</u>	Stantec	<u>Attention:</u>	Kent Torve
<u>Address:</u>	8200 County Road 116 Corcoran, MN 55340	<u>Phone:</u>	763-400-7028
		<u>Email:</u>	kent.torve@stantec.com

Exhibits:	Description	Date Received
<i>Application</i>	<input checked="" type="checkbox"/> Complete ECWMC Application	April 15, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	April 15, 2022
	<input checked="" type="checkbox"/> City authorization: Corcoran	April 12 2022
	<input checked="" type="checkbox"/> Review fee: \$5,400	April 15, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	April 15, 2022

Submittals

1. Project Memo to Kevin Mattson, PW Director, from Kent Torve, City Engineer and Josh Accola, Water Resources Engineer, dated May 26, 2022.
 - a. Project Narrative
 - b. Existing, and Proposed Condition Figures
 - c. Wetland Mitigation Application Packet (submitted with April 5 memo only)
 - d. Existing and Proposed HydroCAD Reports
 - e. P8 Model Inputs and Outputs
 - f. NRCS Soils Map

- g. Soil Borings by Haugo GeoTechnical Services for Proposed City Center Drive Grading and Stormwater Design, dated March 17, 2022
- h. Soil Borings by American Engineering and Testing, Inc. for Saint Therese Senior Living, dated January 27, 2022.
- i. Atlas 14 Rainfall Data
- j. Mass Grading and Stormwater Design for City Center Drive and 79th Place by Stantec Consulting Services dated May 19, 2022.
 - i. Sheet C-001, Cover Sheet
 - ii. Sheet C-002, General Notes and Legend.
 - iii. Sheet C-003, Existing Conditions
 - iv. Sheets C-004 to C-006, Removals and Preconstruction Erosion Control Plan
 - v. Sheet C-201, Wetland Plan
 - vi. Sheet C-202 SWPPP
 - vii. Sheet C-203 Post Construction Restoration Plan
 - viii. Sheets C-301 to C-306, Grading Plan
 - ix. Sheets C-401 to C-403, Road Plan and Profiles
 - x. Sheets C-801 & C-802, Details
- k. Corcoran/Stantec response to Initial May 1, 2022, ECWMC City Center Drive review.

Findings

General

1. A complete application was received April 15, 2022. The initial 60-day decision period per MN Statute 15.99 expires June 14, 2022.
2. The ultimate condition will include, a) turn lanes on CR 116, b) City Center Drive from CR 116 east and south 1,900 feet, c) 79th Place from CR 116, 776 feet east to the intersection of City Center Drive, and d) the grading and development of the rest of the site to accommodate the St. Therese senior housing facility, and regional storm water ponding. This work will disturb approximately 25 acres.
3. The proposed condition will create 13.28 acres of new net impervious area.
4. Permanent wetland impacts will be 34,436 sq. ft. (0.791 acres).
 - a. There are four wetland basins within this site area. Three of the basins will be impacted. Two of the three (8,313 sq. ft.) are type 1 seasonally flooded basins, The third basin being impacted (29,975 sq ft.) is part of DNR public waters wetland #27-043902 which is also a part of the wetland/floodplain complex along the South Fork of Rush Creek. The limits of the DNR public water wetland jurisdiction are at the ordinary high-water elevation determined by the MNDNR, 931.9 (NGVD 29)
 - b. No loss determination is proposed on 22,339 sq. ft. of wetlands. A no loss designation is requested because this 22,339 sq. ft. is being excavated and will be restored as and excavated wetland area.
 - c. Updated wetland replacement plans have not been received as part of the May 26, 2022, revisions. The original replacement plan proposed 1.60 acres of wetlands be purchased from the Hennepin County account #1649, (BWSR wetland bank system).
5. The South Fork Rush Creek floodplain encroaches into this work area. The ECWMC base flood elevation is 937.0 (NGVD 29) in this section of the creek/floodplain. 4,831 cubic yards of floodplain (fill) impacts and 4,857 cubic yards of excavation (mitigation) will occur from this project.

Rule D – Stormwater Management

General

1. The project will disturb approximately 25 acres and create 13.28 acres of new impervious areas.
2. Stormwater will be managed on the site via two ponding and filtration best management practices (BMPs). The BMP in the SW corner of this site will be a series of check dams (3) in a road ditch along CR 116 that will filter water into a sand filter and drain tile. The larger basin in the NE corner of the site will be a wet detention pond (NURP pond) with an iron-enhanced sand filter bay/bench area. This basin will have 29.95 acres drain into it.
3. Soil borings in the vicinity of the proposed regional pond/filter system and biofiltration ditch show sandy lean clays to clayey sands. These are not conducive for infiltration. An underdrain system with drain tile for abstraction volume controls is proposed on both BMP's.
4. To prevent sediment from clogging up the filter system in the NE basin, pre-treatment will occur in the wet-detention section of this pond before the water enters the filter section area. Skimming of floatable materials and oils will be achieved from a submerged outlet pipe in the NE pond.
5. The SW filter swale will be protected from sediment contamination by grass buffer channels that will intercept and settle out sediments prior to entering the filter treatment area where the underdrain and filter media are located.
6. The City of Corcoran will provide the operation and maintenance for these regional stormwater facilities.

Low Floor Elevations

1. There are no existing structures within this project areas water features. Future low floor elevations on structures adjacent to the stormwater and floodplain must meet the Commission's requirements

Rate Controls

1. Rate control will **meet** Commission requirements.
2. Two stormwater basins will be constructed to function as regional stormwater facilities to provide volume, water quality and rate controls for this project. The areas south of 79th Place (except for City Center Drive to 590 feet south of 79th Place) must provide their own stormwater management when they are developed.
 - a. The larger pond in the NE corner of the site will have a wet detention area that will overflow into an iron enhances sand filter bay area. It will have 27.65 acres draining into it from the site, 12.3 acres will be impervious.
 - b. The smaller biofiltration swale and check dams with an underdrain will have 4.1 acres draining into it, with 0.86 acres being impervious areas.
3. The applicant provided proposed HydroCAD model output for the existing, interim, and proposed 2-year, 10-year, and 100-year events at the main discharge points from this site.
 - a. The existing land use areas have 12.86 acres of woodland/grassland, 23.8 acres of agriculture row crops and 1.2 acres of impervious roadways/driveway/parking. The site drains in three directions.
 - i. 8.2 acres drains west to CR 116 ditch where it flows under CR 116 in a 24" CMP.
 - ii. 29.1 acres flows to the north
 - iii. 0.52 acres flow to the south
 - b. The proposed land use will have 13.3 acres of grass, 3.3 acres of cropland, 14.5 acres of impervious areas and 5.7 acres of grass/woods.

- i. 7.9 acres will discharge to the west under CR 116
 1. 4.1 acres will drain into the filter swale and check dam area of the ditch along CR 116 with an additional 3.7 acres of park areas draining directly to the culvert under CR 116
- ii. 29.95 acres will discharge to the north,
 1. 27.65 acres will be directed into the wet detention pond
 2. 2.3 acres will flow directly north
- iii. 0.0 acres will discharge to the south.

Table 1 Rate of Discharge Leaving Site

<i>Direction</i>	<i>Condition</i>	<i>2-year (cfs)</i>	<i>10-year (cfs)</i>	<i>100-year (cfs)</i>
North to Rush Creek wetland/floodplain	Pre-Project (29.1 ac.)	32.83	83.15	160.47
	Proposed Condition (29.95 ac.)	6.19	26.08	81.01
	Change (+0.85 ac.)	-26.64	-83.71	-79.46
West under CR 116	Pre-Project (8.2 ac)	12.69	19.29	21.35
	Proposed Condition (7.87 ac.)	9.72	16.71	20.57
	Change (-0.33 ac.)	-2.97	-2.58	-0.78
South	Pre-Project (0.52 ac)	0.55	1.32	3.25
	Proposed Condition (0.0 ac.)	0	0	0
	Change (-0.52 ac.)	-0.55	-1.32	-3.25

Abstraction Controls

1. Abstraction controls **meet** Commission requirements.
2. Net, new net impervious areas will be 13.28 acres requiring 53,027 cubic feet of abstraction.
3. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible due to low infiltration capacity soils.
4. The applicant proposes to use the iron enhanced sand filter in the NE pond and check dams with sand filters in the ditch section SW area adjacent to CR 116 to filter the water abstraction volume requirements from the ultimate conditions for this site area.
5. Abstraction volume of 50,519 cubic feet is provided for the large pond/filter system.
6. Abstraction volumes of 4,874 cubic feet is provided in the ditch/check dam system along CR 116.
7. Abstraction volumes will draw down within 48 hours
 - a. Draw down assumes 3"/hour over the surface area of the filter basin. Note, this is acceptable per MPCA guidelines but is higher than the Commission's recommend 1"/hour for determining draw down. Post construction drawdown rates must be verified.

Water Quality

1. Water quality will meet Commission requirements.
2. The applicant used P8 model to simulate pollutant removal by the NURP pond and filtration systems.

Table 2 Water Quality Summary¹

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	18.71	N/A	12.9	3,403
Proposed (w/o BMP's) ¹	35.38	53,027 (required)	38.5	11,191
Proposed (w/ BMP's) ¹	35.38	55,393	9.8	1,520
Change¹	+16.67	+2,366 (excess)	-3.1	-1,883

Rule E – Erosion and Sediment Control

1. Plans do not **meet** Commission requirements for erosion and sediment control.
2. Erosion control measures provided on the plan set include.
 - a. Rock construction entrance
 - b. Silt fence
 - c. Double silt fence adjacent to delineated wetland boundaries
 - d. Temporary and permanent vegetation restoration specifications
 - e. Inlet protections
 - f. Filter basin sequencing
 - g. Temporary sediment basin location and sizing
3. The erosion control plans must provide the following items.
 - a. Interim and post construction sediment protections for cut slopes draining into 79th Place and City Center Drive are necessary.
 - b. Areas where rapid stabilization is required within 200 feet from the point of discharge into a surface water must be identified.
 - c. General SWPPP notes, third paragraph on page C-202, claims the project will not disturb more than 5 acres that drain to a common location. This is not a correct statement.
 - d. The overflow from the final check dam must be lined with riprap or velocities evaluated to be less than 4.5 feet per second during a 10-year storm event.

Rule F - Floodplain Alteration

1. Floodplain alterations **meet** Commission requirements.
2. The South Fork Rush Creek floodplain encroaches into this work area. The ECWMC base flood elevation is 937.0 in this section of the creek/floodplain. The DNR/FEMA base flood elevation is 936.0. The ECWMC BFE (adjusted to 937.3 for 1988 NAVD) was used to determine the amount of floodplain impacts that will occur from this project.
3. Based on a BFE of 937.0 (1929 NGVD), 4,831 cubic yards of floodplain will be filled during the construction of City Center Drive.
 - a. 4,857 cubic yards of mitigation (excavation) is proposed within the fringe wetland of the wetland/floodplain complex below wet detention pond 2P.
 - b. Per our wetland alteration comments below, we believe this floodplain work may have long term negative impacts to this fringe wetland area and the overall wetland complex.

Per the MN wetland functional assessment procedure, we recommend the City and TEP evaluate the existing wetland where the floodplain excavation is proposed to determine short- and long-term effects to the functions and values of the existing wetland areas proposed to be impacted.

Rule G - Wetland Alteration

1. The City of Corcoran is the LGU in charge of administering the MN Wetland Conservation Act on this site. A wetland replacement plan was submitted as part of the ECWMC application materials but was undated and not signed.
2. Revised (May 26, 2022) wetland impacts of 56,775 sq. ft. (1.30 acres) are proposed from this project. 22,339 are proposed to be determined as no-loss impacts and 34,436 are proposed as permanent impacts to be replaced at a 2:1 ratio off site per the MN BWSR wetland bank program.
 - a. There are four wetland basins within this site area. Three of the basins will be impacted.
 - i. Wetland 1 is the large floodplain/wetland complex on Rush Creek
 1. 19,487 sq. ft. of excavation is proposed. This is requested to be considered a no-loss because of excavation within a type 1 wetland determination.
 2. 29,975 sq. ft. of permanent fill is proposed from the construction of City Center Drive. This will be replaced at a 2:1 ratio.
 - ii. Wetland 2 will not be impacted from this site work
 - iii. Wetland 3 is within the large regional pond construction work.
 1. 2,852 sq. ft. is proposed to be excavated. This is requested to be considered a no-loss because of excavation within a type 1 wetland determination. No replacement is proposed.
 - iv. Wetland 7 is a small (5,461 sq. ft.) type 1 seasonally flooded wetland that will be impacted and must be replaced at a 2:1 ratio.
 - b. It does not appear that the DNR has jurisdiction on any of the work proposed for this site. The wetland/floodplain complex being affected on this site plan is higher in elevation than the limits of the DNR public water wetland jurisdiction elevation of 931.9 (NGVD 29). Wetlands above that elevation are under the jurisdiction of the MN WCA.
 - c. The updated wetland replacement plan revisions have not been received as of this review.
3. Because of the location and quality of the wetland and floodplain basin, we believe excavation within the type 1 portion of the wetland 1 complex, has the potential to negatively impact quality and water quality of this wetland resource. Avoiding any impacts in the area below basin 2P would be in the best interest of this wetland resource. Per the MN wetland functional assessment procedure, we recommend the City and TEP evaluate the existing wetland where the floodplain excavation is proposed to determine short- and long-term effects to the functions and values of the existing wetland areas proposed to be impacted.
4. We also believe that wetland 3 impacts should be considered permanent impacts and be replaced per MN WCA requirements.

Rule I – Buffer Strips

1. Plans **meet** Commission requirements for buffer strips.
2. The buffer strip minimum and average widths are consistent with the Commission's requirements. Areas that are disturbed with a final slope steeper than 6:1 are increased as necessary (i.e., 5:1 = 30 feet, and 4:1=35' wide).

3. The buffer vegetation maintenance plan must meet the Commission requirements for native vegetation establishment and maintenance, including maintaining and restoration of any buffer areas during the first two full growing seasons.
4. Wetland buffer monumentation meet the Commission's requirements.

Recommendation

Approval with conditions

Conditions for Approval

- 1) Wetland impacts and replacement plans must be approved by the LGU.
- 2) Final erosion and sediment control plans must be submitted that meet the Commissions requirements.
- 3) Post construction drawdown rates of ≥ 3 " per hour must be verified on the filter bench to the NE regional pond.
- 4) Final escrow balance due or refund is determined by the ECWMC administrator.



James C. Kujawa
Surface Water Solutions
Advisor to the Commission

May 31, 2022
Date

Attachments

- | | |
|----------|-----------------------------|
| Figure 1 | Project Location |
| Figure 2 | Existing Drainage Map |
| Figure 3 | Proposed Drainage Plan |
| Figure 4 | Wetland and Floodplain Plan |
| Figure 5 | Grading Plan |

Figure 1 Project Location



Figure 2 Existing Drainage Map

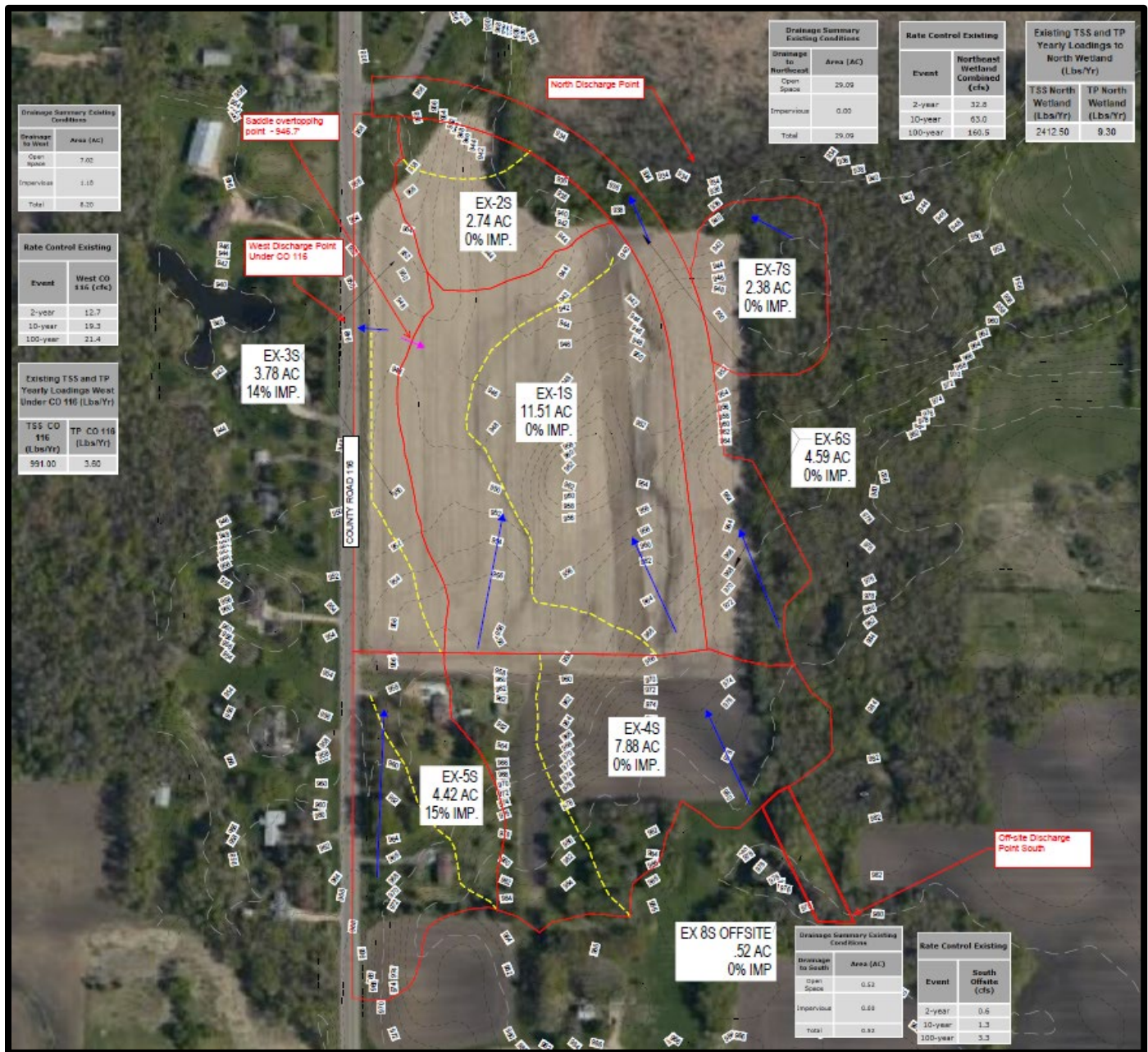


Figure 4 Wetland, Buffer, and Floodplain Plan

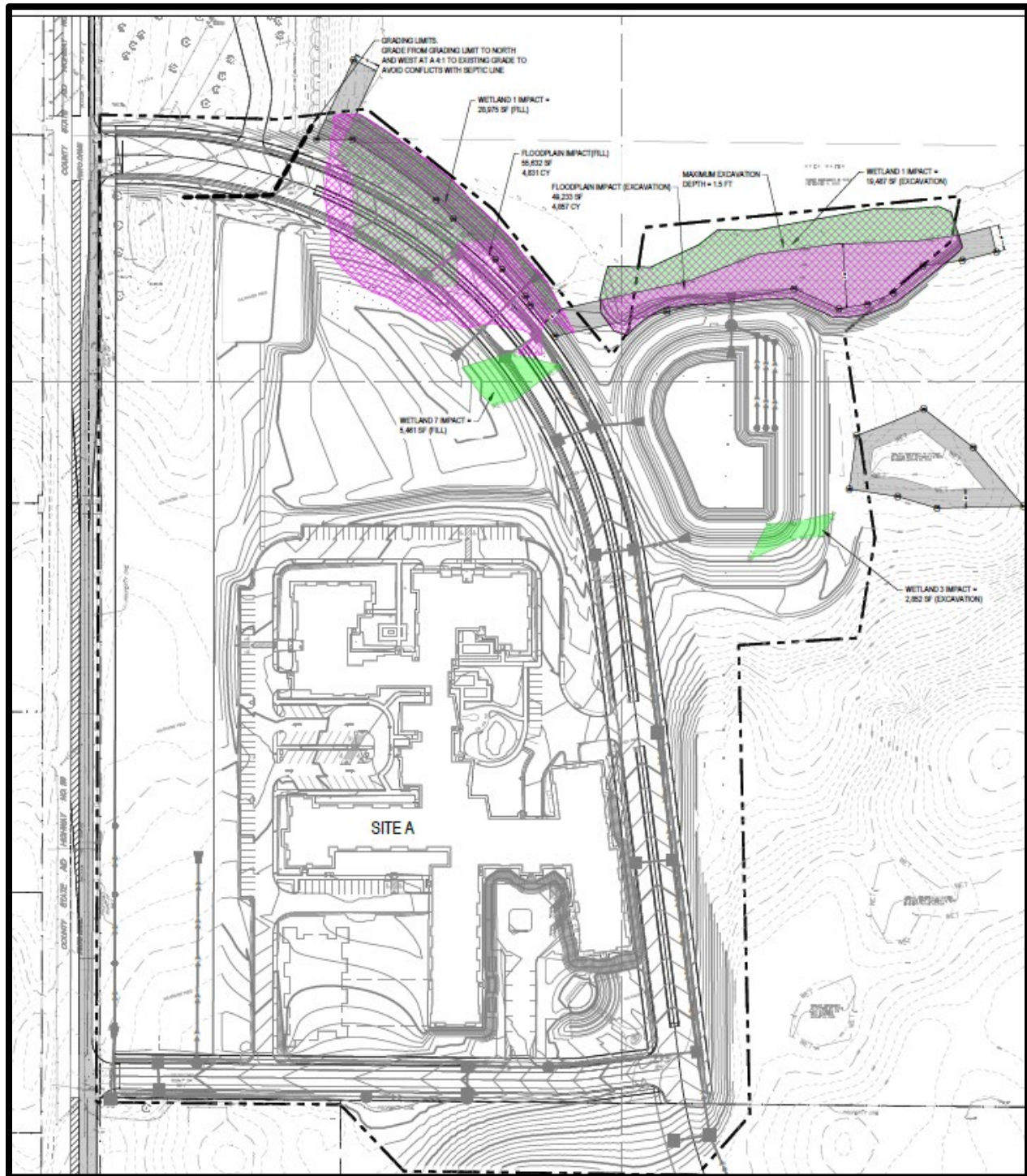
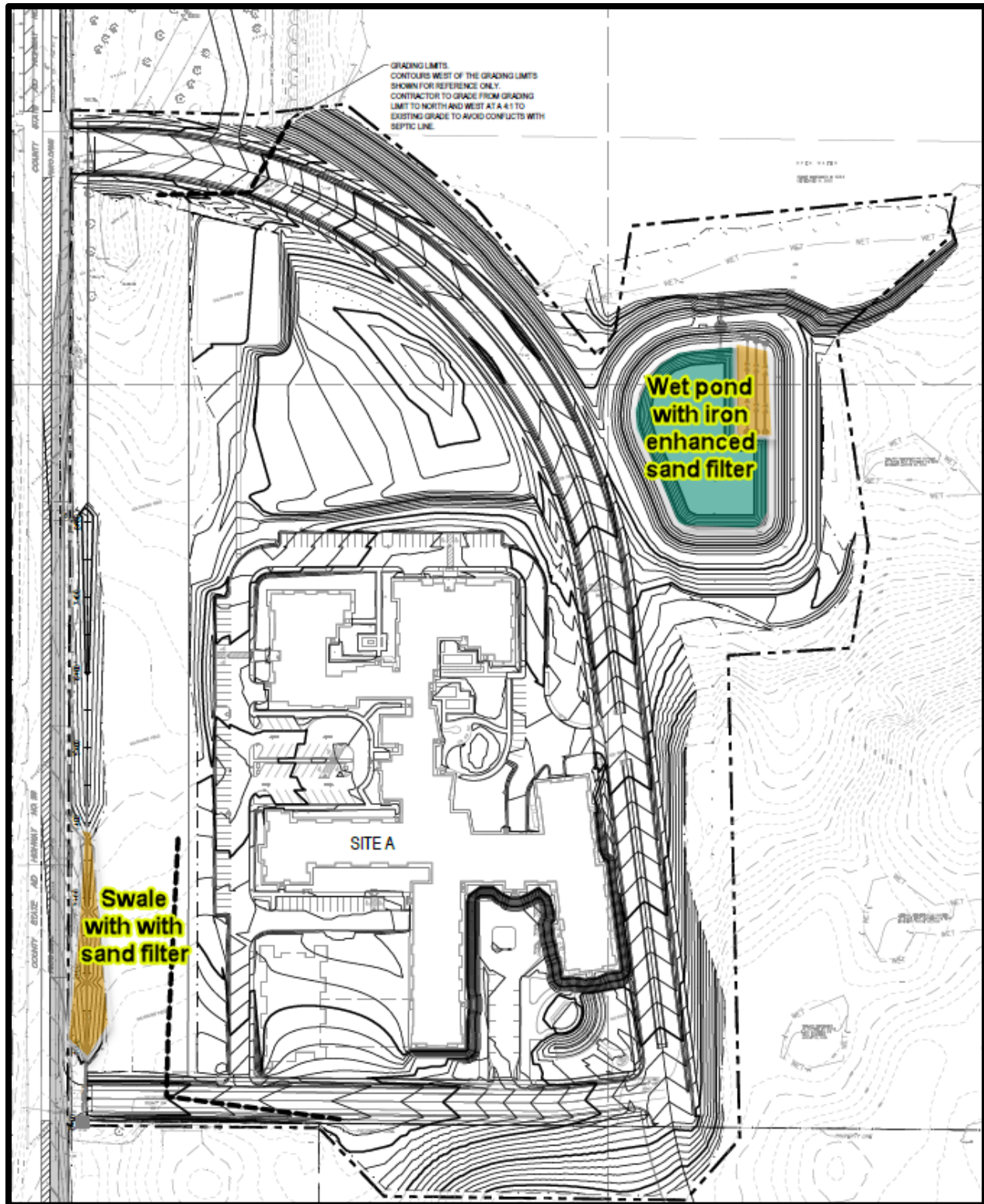


Figure 5 Grading Plan



elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
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Big Woods Rogers Project #2022-018

Project Overview:

<i>Location:</i>	Two parcels that total in 74.0-acres located north and east of Territorial Road and Tucker Road in Rogers.		
<i>Purpose:</i>	Construct 209 single family and multifamily residential homes with associated streets and utility infrastructure.		
<i>WMC Rules</i>	X	Rule D	Stormwater Management
<i>Triggered:</i>	X	Rule E	Erosion and Sediment Control
		Rule F	Floodplain Alterations
	X	Rule G	Wetland Alteration
	X	Rule H	Bridge and Culvert Crossings
	X	Rule I	Buffer Strips
	X	Rule K	Variance

Applicant: Forestar Group

Address: 20860 Kenbridge Court, Suite
100, Lakeville, MN

Attention: Stephen Gardiner

Phone: (612)581-8940

Email: Stephengardiner@forestar

Agent: Westwood Professional Services

Address: 12701 Whitewater Drive, Suite
#300, Minnetonka, MN

Attention: Christian Froemke

Phone: (952)937-5150

Email: Christian.froemke@westwoodps.com

Exhibits:	Description	Date Received
<i>Application</i>	<input checked="" type="checkbox"/> Complete ECWMC Application	April 15, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	April 15, 2022
	<input checked="" type="checkbox"/> City authorization: Rogers, MN	March 11, 2022
	<input checked="" type="checkbox"/> Review fee: \$4,050	April 15, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	April 15, 2022

Submittals

1. Stormwater Management Plan, dated March 11, 2022, prepared by Westwood Professional Services, revised April 28, 2022, May 13, 2022
 - a. Stormwater Narrative
 - b. Existing and Proposed Drainage Maps
 - c. Existing and Proposed HydroCAD models
 - d. Geotechnical Evaluation Report, dated August 2021, prepared by Braun Intertec Corporation

2. Construction Drawings, dated January 19, 2022, prepared by Westwood Professional Services, April 29, 2022

Findings

General

1. A complete application was received April 15, 2022. The initial 60-day decision period per MN Statute 15.99 expires June 14, 2022.
2. The existing 42.1-acre parcel and 31.9-acre parcel contains agricultural land and several low wetland areas. Some of the wetlands have recently been farmed. The site currently drains in two general directions:
 - a. To the north/northwest towards Cowley Lake.
 - b. To the east towards a large wetland complex located just south of 129th Avenue and Arthur Street.
3. The proposed site consists of two parcels separated by an exception parcel in the middle of the site. The construction includes 209 single family residential homes with associated streets and utility infrastructure with a disturbance of 61.0-acres.
4. The development will create 23.6-acres of impervious area, all of which is net, new impervious.
5. Two filtration basins and three NURP ponds will be constructed to meet the water quality and abstraction requirements.
6. Soil borings indicate predominately lean clay and sandy lean clay as underlying soils throughout the site. Infiltration is not feasible.
7. There are no Elm Creek Watershed jurisdictional floodplains or stream crossings within the site.

Rule D – Stormwater Management

General

1. The proposed project will disturb 61.0-acres and create 23.6-acres of impervious surface, all of which is net, new impervious area.
2. Soil boring logs indicate lean clay and sandy lean clay as underlying soils throughout the site, with limited seams of clayey sand and sandy silt shown in a few of the borings.
3. These underlying soils are predominantly Hydrologic Soil Group Type C and D (low and very low infiltration capacity).
4. Stormwater will be managed using two filtration basins and three NURP ponds. Two of the NURP ponds will act as one using 2-24" equalizing pipes.
5. The ultimate discharge locations of the site are a wetland in the northwest corner of the site, an existing pond just south of 129th Avenue, and an existing wetland at the east side of the project.

Rate Controls

1. Rate control **meets** Commission requirements.
2. The proposed basins were sized to draw down within 48 hours.
3. The applicant provided HydroCAD model output for the 2-year, 10-year, and 100-year events total outflow from each drainage from the site. The rates are summarized in Table 1.

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Northwest To Wetland	Pre-Project	8.0	12.3	18.4
	Proposed	5.2	9.9	17.7
	Change	-2.8	-2.4	-0.7
South To Existing Pond	Pre-Project	5.8	10.9	16.6
	Proposed	1.6	4.8	11.0
	Change	-4.2	-6.1	-5.6
East To Wetland	Pre-Project	27.6	60.9	124.5
	Proposed	21.1	54.7	124.0
	Change	-6.2	-5.8	-0.2
TOTAL	Pre-Project	41.4	84.1	159.5
	Proposed	27.9	69.4	152.7
	Change	-13.5	-14.7	-6.8

Low Floor Elevations

1. Low floors **meet** Commission requirements.
2. The low floor elevations must be at least two feet above the 100-yr high water level (HWL) and at least one foot above the EOF for the stormwater pond.

Operation and Maintenance

The applicant will need to enter a stormwater maintenance agreement with the City of Rogers. The city's template stormwater maintenance agreement satisfies the requirements of the Commission.

Abstraction Controls and Water Quality

1. Abstraction and Water Quality controls **do meet** Commission requirements
2. Infiltration from 1.1 inches of runoff from impervious areas is not feasible.
3. The applicant proposes to use filtration to meet the Commission's requirement for abstraction.
4. Net, new impervious areas will be 23.6-acres from the site, requiring abstraction of 94,235 cubic feet.
5. The applicant provided existing and proposed P8 modeling for the development showing conformance with the water quality requirements.
6. The average depth of the NURP pond is 4.0-feet, which meets the Commission's standards.

Table 2 Water Quality Summary

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	158.0	N/A	56.1	3,610
Proposed (w/ BMP's)	183.6	94,235 (required) 105,638 (provided)	50.3	1,115
Change	+25.6	+ 11,403 (excess)	-5.8	-2,495

Rule E – Erosion and Sediment Control (plans)

1. Plans **meets** 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. Permanent erosion control devices
 - e. Stabilization of disturbed soil areas

Rule G – Wetland Alterations

1. Wetland alterations **do not meet** the Commission's requirements.
2. The city of Rogers is the Local Government Unit in charge of administering the Wetland Conservation Act (WCA).
3. The project proposes to fill wetlands.
4. A wetlands alterations plan has not been approved.

Rule H – Bridge and Culvert Crossings

1. Bridge and culvert crossings **meet** the Commission's requirements.
2. Northwest wetland culvert retains adequate hydraulic to pass the 100-year flow as the flow is reduced in proposed conditions.
3. The culvert crossings mimic the existing base flow (2-year) conditions.
4. The water quality is not adversely affected.

Rule I – Buffer Strips

1. Buffer strips does **meet** the Commission's requirements as follows:
 - a. The wetland buffer vegetation will meet the Commission requirements for native vegetation establishment and maintenance.
 - b. Wetland buffer monumentation does meet the Commission's requirements.
 - c. The buffer strip is at least 25-feet wide in all locations with a slope shallower than 6:1 (horizontal: vertical) and meets the Commission's minimum (10 feet) and average (25 feet) standard.
 - d. The city of Rogers has wetland buffer monumentation that meets the Commission's standards.

Recommendation

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.
2. Approval is contingent upon receiving a wetland alteration plan approved by the WCA LGU.
3. Approval is contingent upon an operation and maintenance plan that is approved by the City of Rogers.

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



Date 6/1/2022

Attachments

- | | |
|----------|------------------------|
| Figure 1 | Project Location |
| Figure 2 | Existing Drainage Map |
| Figure 3 | Proposed Drainage Plan |

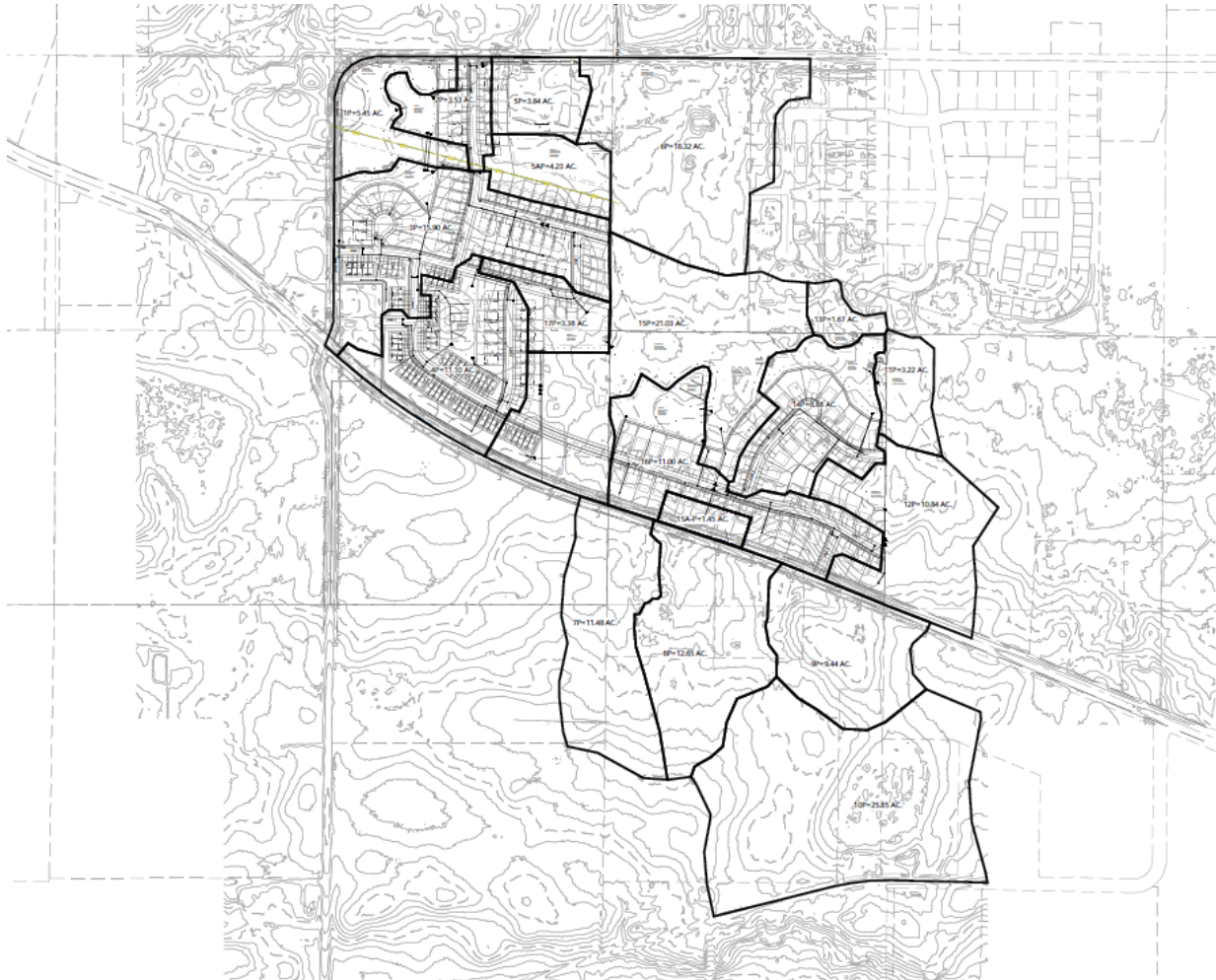
Figure 1 Project Location



Figure 2 Existing Drainage Map



Figure 3 Proposed Drainage Plan



elm creek Watershed Management Commission

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Grass Lake Preserve Rogers Project #2022-019

Project Overview:

Location: 38.45 acres located east of Brockton Road (CR 13) approximately halfway between North and South Diamond Lake Roads. Hennepin County PID's 1312023140009 and, 1312023410003.

Purpose: Construction of 120 twin homes and 6 single family detached homes with corresponding utilities, and streets.

WMC Rules X Rule D Stormwater Management

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

Applicant: DR Horton, Inc.

Address: 20860 Kenbridge Court, Suite 100
Lakeville, MN 55044

Attention: Reid Schulz

Phone: 952-985-3757

Email: rtschulz@drhorton.com

Agent: Same as above

Address:

Attention:

Phone:

Email:

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	April 15, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	April 15, 2022
	<input checked="" type="checkbox"/> City authorization: Rogers, MN	April 11, 2022
	<input checked="" type="checkbox"/> Review fee: \$4,050	April 15, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	April 12, 2022

Submittals

1. Grading, Street, Utilities and Landscape Preliminary Plans for Grass Lake Preserve by Westwood Professional Services Inc., dated April Site Construction Plans, dated May 27, 2022.
 - a. Sheet 1 of 19, Cover Sheet
 - b. Sheet 2 of 19, Existing Conditions
 - c. Sheet 3 of 19, Preliminary Plat
 - d. Sheets 4 to 6 of 19, Grading Drainage & Erosion Control Plans
 - e. Sheets 7 to 10 of 19, Street & Utility Plans, Profiles and Typical Sections

- f. Sheets 11 to 15 of 19, Construction Details
 - g. Sheet 16 to 19 of 19 Landscape Plans, Notes and Details.
2. Elm Creek Watershed Management Commission Request for Plan Review and Approval
3. Stormwater Management Plan, for Grass Lake Preserve by Westwood Professional Services dated April 5, 2022, revised May 25, 2022.
 - a. Stormwater narrative
 - b. Existing Conditions Drainage Map
 - c. Proposed Conditions Drainage Map
 - d. HydroCAD Model for Existing and Proposed Conditions
 - e. Geotechnical Evaluation Exploration by Braun Intertec dated May 15, 2020.
 - f. Pond Volume Calculations
 - g. Water Quality Informaton (P8).
4. ECWMC project 2022-019 review dated May 5, 2022, with redline comments from applicant received on May 27, 2022.

Findings

General

1. A complete application was received April 15, 2022. The initial 60-day decision period per MN Statute 15.99 expires June 14, 2022.
2. The existing parcels are 38.5 acres, which includes one large rural residential lot, one old farmstead with the remaining areas being cropland and wetland. There are 2.57 acres of existing impervious areas on site.
3. The existing site has two discharge points. 17.4 acres drains directly to the south and east into Grass Lake and 12.1 acres drains into a small wetland adjacent to the ROW of CR 13 (Brockton Lane) that outlets into a culvert flowing west under CR 13 (Brockton Lane)
4. The entire site ultimately drains to Grass Lake, state Public Waters (ID 27-135P), which flows to Diamond Lake then to Diamond Creek.
5. The proposed construction includes 120 twin homes and 6 single family homes with associated parking and streets. Two filter basins and one wet detention stormwater pond are proposed.
6. The development will disturb approximately 24 acres and create or reconstruct 10.70 acres of impervious area, 8.13-acres of which is net new impervious
7. Existing and proposed conditions HydroCAD models were created to model rate control.
8. On-site wetlands are Grass Lake and a $\pm 7,000$ sq. ft. wetland along the CR 13 (Brockton Lane) ROW. Both will not be impacted by this project.
9. Soil borings indicate clay and sandy lean clay soil throughout the site and beneath the proposed basin bottom, therefore, infiltration is not feasible.
10. There are no Elm Creek Watershed jurisdictional floodplains or stream crossings.

Rule D – Stormwater Management

General

1. The project will disturb about 25 acres out of 38.45 acres total area. The post-project impervious area will create 8.7 acres impervious areas.
2. These underlying soils are Hydrologic Soil Group Type D (very low infiltration capacity).
3. Two filter basins and one wet detention pond are proposed for stormwater management on this site.

4. Approximately three (3) acres from the north drain into this project. 0.7 acres are developed, single family homes that will drain into filter basin #3, 0.6 acres of undeveloped land will drain into wet detention pond #2 and 1.5 acres will drain untreated into the CR 13 ROW to the existing wetland along CR 13 that drains west into DNR public water wetland 288w.
5. HydroCAD analysis was used to model the runoff conditions before and after development. NOAA Atlas 14 and MSE-3 distribution runoff conditions were utilized for the 24-hour 2-, 10, and 100-year events.
6. P8 water quality model was used to analyze the pre and post development nutrient loads on this site. Summary results only, were provided.
7. Basin 6P pretreatment is provided by surface water flows through the lawn grass above the sand filter. Pre-treatment for basin 3P is provided by two sump manholes at CBMH 202 and 203.
8. Basin 2P has a submerged outlet to control floatables and oils.
9. Basins 6P and 3P will have SAFL Baffle weirs added to structures 301 and 202 to control floatables.

Rate Controls

1. Rate control will meet Commission requirements.
2. The applicant provided 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)
South and East (Into Grass Lake)	Pre-Project (17.59 ac.)	49.41	85.97	163.64
	Proposed (23.63 ac.)	20.08	34.51	65.90
	Change (+6.04 ac.)	-29.33	-51.46	-97.74
West (To culvert under CR 13)	Pre-Project (12.11 ac.)	28.88	49.69	93.81
	Proposed (6.06 ac.)	5.85	8.06	10.24
	Change (-6.05 ac.)	-23.03	-41.63	-83.57

Low Floor Elevations

1. Low floor elevations meet the Commission's requirement of 2.0' freeboard above the adjacent water body and 1.0' freeboard above the emergency overflow (EOF)
 - a. The high-water level for the central basin (Pond 6P) is 922.6 and an EOF of 924.0. Low floors on adjacent lots range from 925.9 to 937.9.
 - b. The high-water and EOF elevation on the SE basin (Pond 3P) are both 918.3. The low floors on adjacent lots range from 926.4 to 925.4.
 - c. The high-water and EOF elevation on the SW basin (Pond 2P) are both 917.9. The low floor on the adjacent lot is 925.0.
 - d. Wetland 1 (west wetland on CR 13) HWL is 920.3 with the EOF at 921.5. The low floors on adjacent lots are 923.3 to 929.0.

- e. Grass Lake 100-year elevation is modeled at 910.0. The lowest basement adjacent to Grass Lake is 916.8.

Operation and Maintenance

For residential projects with a filtration system in the city of Rogers, the landowner is responsible for the maintenance of the stormwater management BMP's. Unless the city agrees to maintain the stormwater basins on site, a stormwater maintenance agreement with the city will be a condition of this approval.

Abstraction Controls and Water Quality

1. Abstraction controls will **meet** Commission requirements.
2. New impervious areas used by the applicant for abstraction is 8.7 acres which requires 34,740 cubic feet abstraction volume.
3. Full infiltration of 1.1 inches of runoff from impervious areas is not feasible due to low infiltration capacity soils.
4. The applicant proposes to use two filtration basins to provide 1.01-acre feet (44,064 cu ft) abstraction.
5. Filter basin 6P will have 0.45-acre feet (19,750 cu ft) of storage available for filtration between the filter surface (921.00) and the outlet control elevation (922.0). This basin will draw down in 13.5 hours using a drawdown rate of 1" over the sand filter surface area.
6. Filter basin 3P will have 0.42-acre feet (18,472 cu ft) of storage available for filtration between the filter surface (913.5) and the outlet control elevation (915.0) This basin will draw down in 25.0 hours using a drawdown rate of 1" over the sand filter surface area.
7. Filter media mix C is specified for media material. MPCA media mix is recommended in this case because phosphorous is a concern.
8. P8 was used to model the site for pre- vs post-development nutrient loads.
 - a. full P8 PDF information for the inputs and outputs will be needed.
 - b. A 1.94-year period was used to simulate runoff loads in the P8 model. We require a minimum 10-year period
9. Table 2 shows ECWMC staff estimates based on their MIDS model analysis.

Table 2 Water Quality Summary

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	20.63	N/A	16.8	3,059
Proposed w/o BMP's	33.45	34,740 (required)	27.3	4,958
Proposed w/2 filtration basins and 1 stormwater pond	30.53	38,222	18.1	2,469
Change	+9.9	+3,482	+1.3	-590

Rule E – Erosion and Sediment Control

1. Plans do not **meet** Commission requirements for erosion and sediment control.

2. A full SWPPP plan is required prior to grading
3. Wetland 1 has more than 10 acres draining towards it. Temporary sediment ponding is necessary or in lieu of said pond, sequencing to provide sediment protection of surface waters on site is necessary.
4. Temporary and permanent seeding and mulching timing, standards and specification are necessary on the plan set.
5. Current plan set erosion and sediment control plans that are consistent with current best management practices, includes:
 - a. Rock construction entrance
 - b. Silt fence
 - c. Redundant silt fence above wetlands
 - d. Catch basin inlet protection
 - e. Stabilization of disturbed soil areas

Rule G – Wetland Alteration

1. Site plans indicate 1,500 sq. ft. of wetland impacts on the east side of CR 13 due to turn lane requirements.
2. No wetland replacement plan has been provided with the current plan submittal (5-27-22)
3. The City of Rogers is the LGU in charge of administering the MN WCA and the MN DNR oversees administering impacts to DNR protected waters.
4. Prior to wetland impacts the applicant must secure all necessary wetland permits.

Rule I –Buffer Strips

1. Wetland buffer strips widths, areas and restoration meet the Commission's requirements.
2. Wetland buffer strips are necessary around the wetland in Outlots D and C (Grass Lake wetland basin) and Outlot B (wetland 1 along CR 13 ROW).
3. Accounting for graded slopes into the buffer area that are steeper than 6:1, EC staff estimates 76,655 sq. ft. of wetland buffer strips are necessary on this site and 80,075 are provided.
4. Buffer monumentation meeting the Commission requirements must be shown on the south side of the inlet area to Grass Lake. site plan.

Recommendation

None currently.

Conditions for Approval



James C. Kujawa
Surface Water Solutions
Advisor to the Commission

May 28, 2022
Date

Attachments

- Figure 1 Project Location
- Figure 2 Existing Drainage Map
- Figure 3 Proposed Drainage Plan
- Figure 4 Landscape and Grading Plan
- Figure 5 Proposed Buffer Strips

Figure 1 Project Location

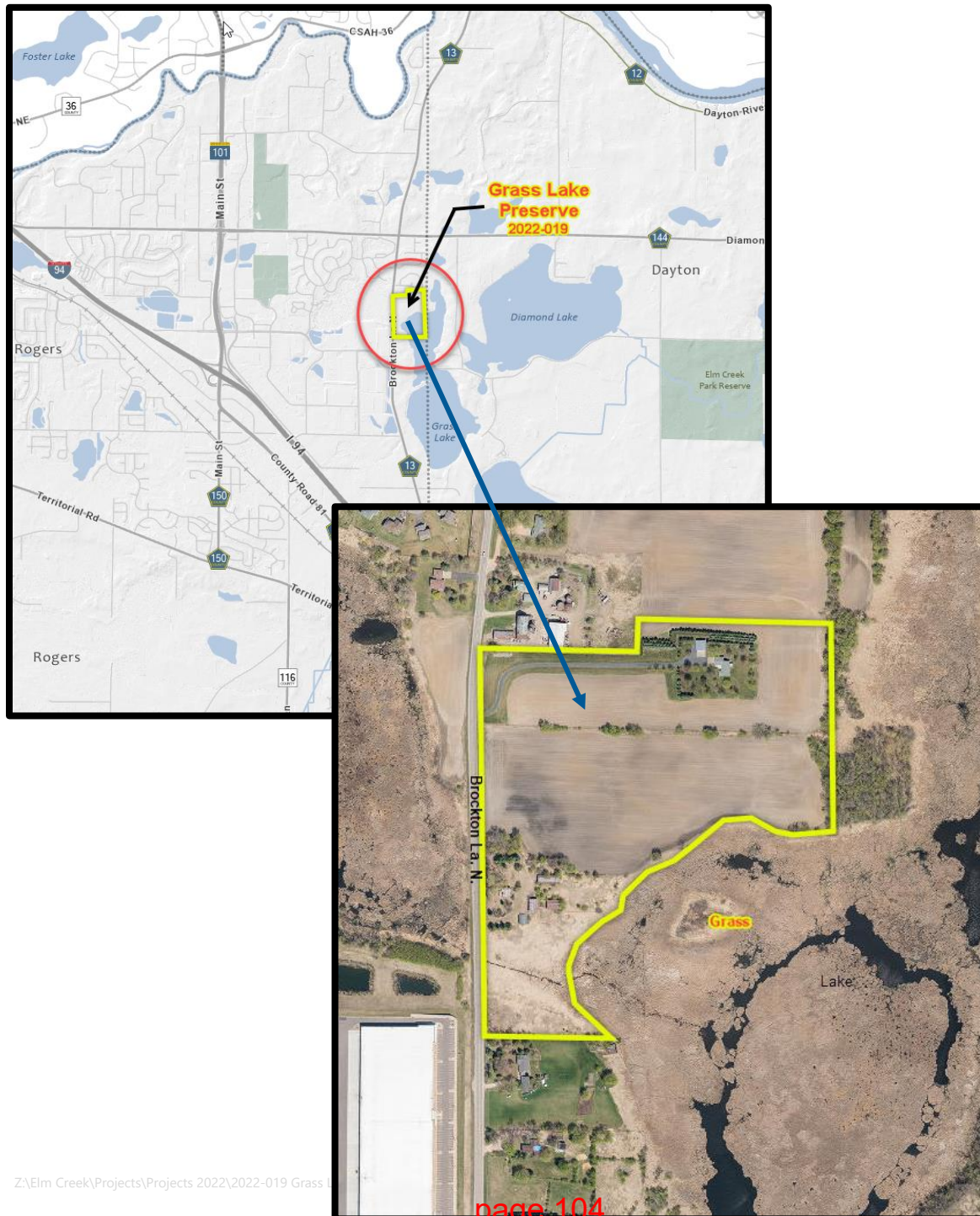


Figure 2 Existing Drainage Map



Figure 2 Proposed Drainage Plan

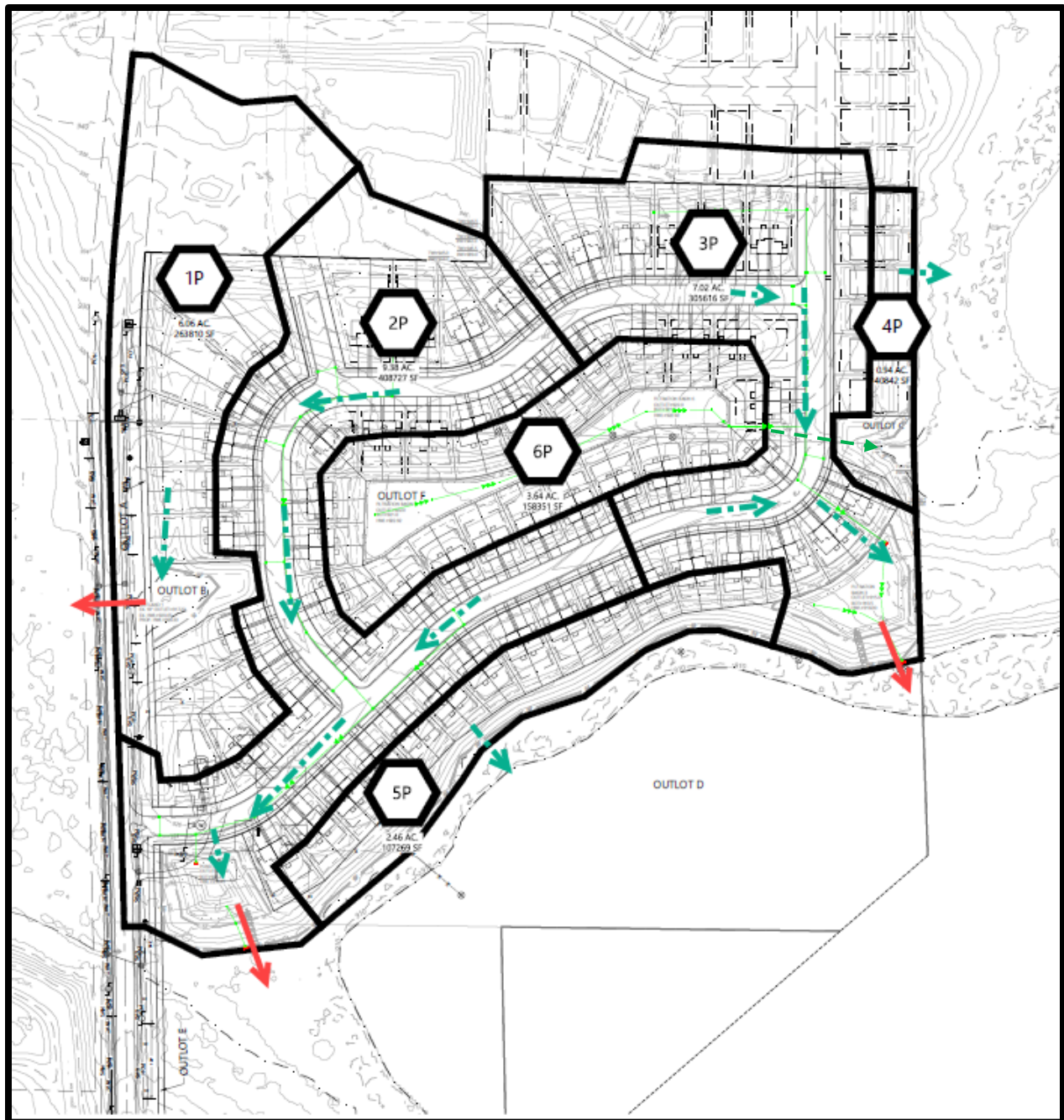


Figure 3 Landscape and Grading Plan

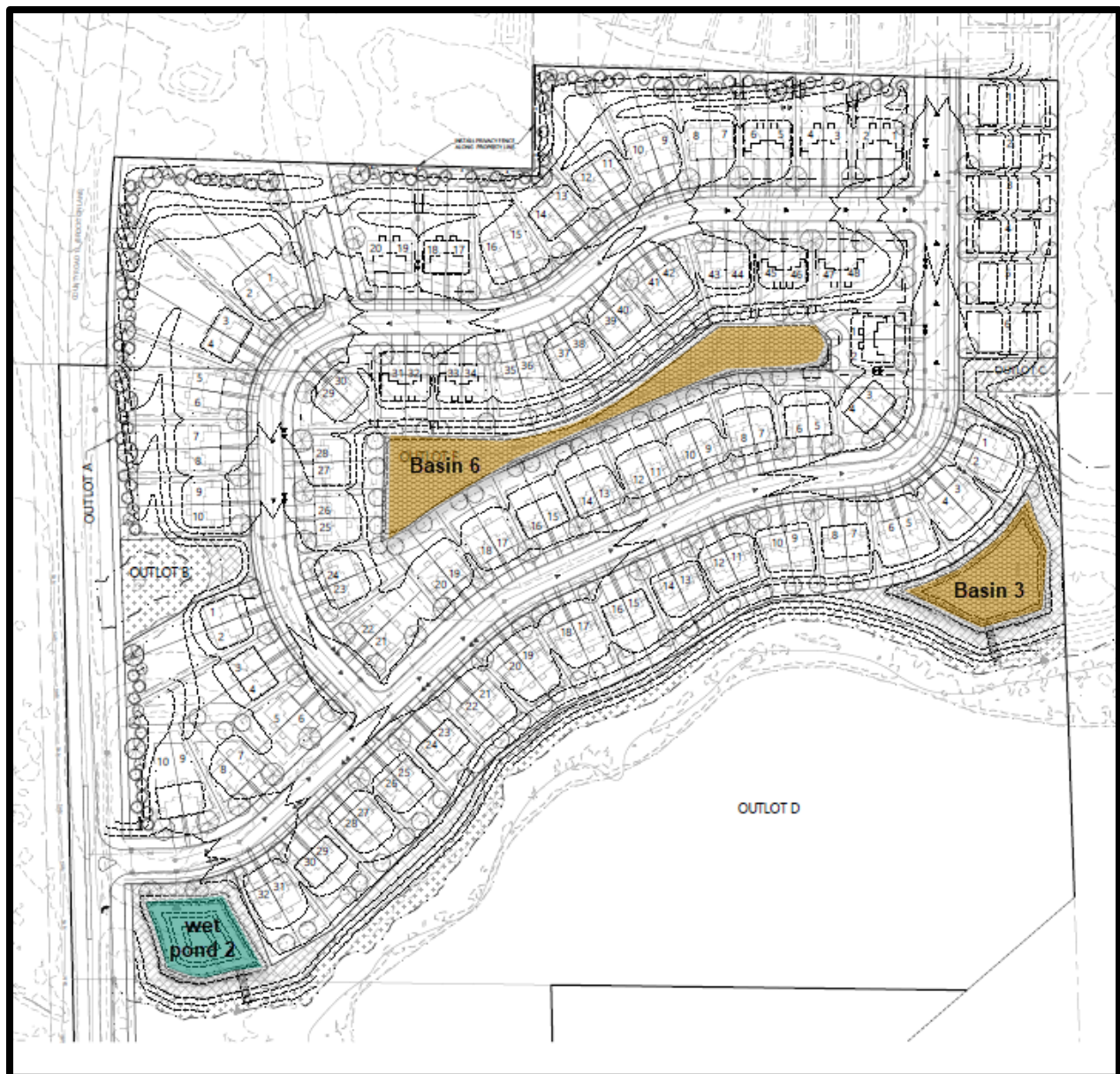
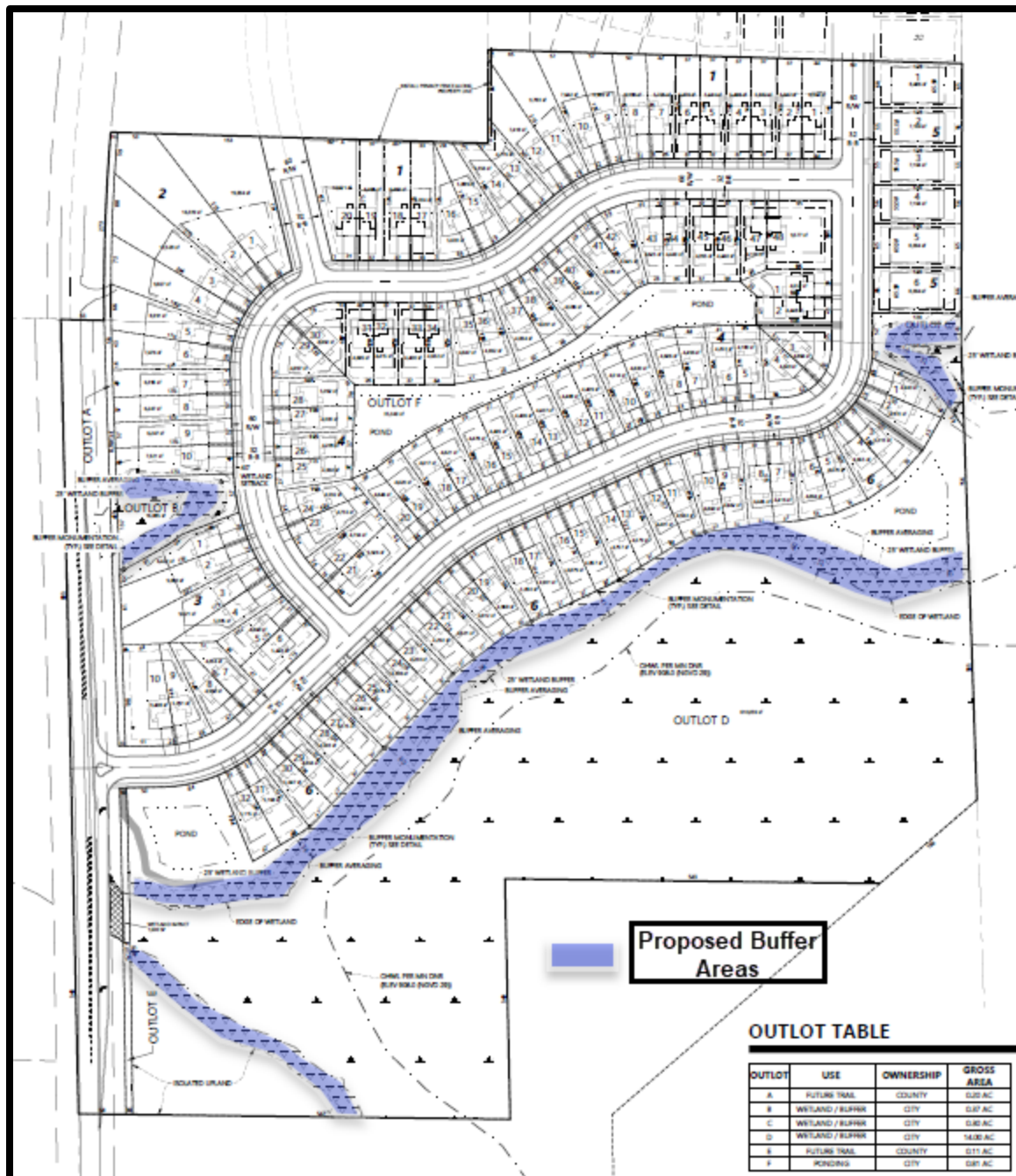


Figure 5 Buffer Strips



elm creek Watershed Management Commission

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www.elmcreekwatershed.org

Skye Meadows Extension Rogers Project #2022-020

Project Overview:

<i>Location:</i>	The project site is located southeast of the intersection of Territorial Road and Tilton Trail North in the City of Rogers, MN.		
<i>Purpose:</i>	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.		
<i>WMC Rules Triggered:</i>	X	Rule D	Stormwater Management
	X	Rule E	Erosion and Sediment Control
		Rule F	Floodplain Alterations
	X	Rule G	Wetland Alteration
		Rule H	Bridge and Culvert Crossings
	X	Rule I	Buffer Strips

<u>Applicant:</u>	U.S. Home, LLC (LENNAR)	<i>Attention:</i>	Paul Tabone
<i>Address:</i>	16505 36 th Ave. N. STE 600 Plymouth, MN 55446	<i>Phone:</i>	952-221-4032
		<i>Email:</i>	
<u>Agent:</u>	Paul Tabone - LENNAR	<i>Attention:</i>	Paul Tabone
<i>Address:</i>	16505 36 th Ave. N. STE 600 Plymouth, MN 55446	<i>Phone:</i>	952-221-4032
		<i>Email:</i>	paul.tabone@lennar.com

Exhibits:	Description	Date Received
<i>Application</i>	<input checked="" type="checkbox"/> Complete ECWMC Application	April 21, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	April 21, 2022
	<input checked="" type="checkbox"/> City authorization: Rogers, MN	March 12, 2022
	<input checked="" type="checkbox"/> Review fee: \$4,050	April 21, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	April 21, 2022

Submittals

1. Elm Creek Watershed Management Commission Project Review Fee Schedule
2. Site Construction Plans, prepared by ISG, dated April 15, 2022, revised on April 22, 2022
3. Elm Creek Watershed Management Commission Request for Plan Review and Approval, dated April 21, 2022
4. Stormwater Management Plan, prepared by ISG, dated April 14, 2022, revised on May 11, 2022, & May 24, 2022.

- a. *Stormwater narrative*
 - b. *Existing Conditions Drainage Map*, prepared by ISG, not dated
 - c. *Proposed Conditions Drainage Map*, prepared by ISG, not dated
 - d. *Existing HydroCAD model run for the 2-, 10-, and 100-year events*, dated April 14, 2022, revised on May 9, 2022, and May 24, 2022
 - e. *Proposed HydroCAD model run for the 2-, 10-, and 100-year events*, dated April 14, 2022, revised on May 10, 2022, and May 24, 2022
 - f. *MIDS Model, Existing and Proposed Conditions*, dated April 13, 2022
 - g. *Geotechnical Exploration and Engineering Review*, prepared by Braun Intertec, dated November 24, 2021
 - h. *Wetland Delineation Report*, prepared by Midwest natural Resources, Inc., dated April 14, 2022
5. *Maintenance Access Exhibit*, prepared by ISG, not dated
 6. *Color Site Exhibit*, prepared by ISG, not dated
 7. *MWCA Notice of Decision*, prepared by MN Board of Water and Soil Resources, dated December 23, 2021

Findings

General

1. A complete application was received April 21, 2022.
2. The existing 45-acre site is primarily row crop with some grass and impervious area from the existing homestead and stand-alone sheds. In addition to the 45-acre site, an additional drainage area to the east (approximately 16-acres) was evaluated as it drains to the property. The area is composed of dense trees and underbrush. Across the total 62-acres, the predevelopment site has approximately 1.85-acres of impervious area. The existing impervious area consists of the homestead, stand-alone sheds, gravel surfacing, concrete pavement, and silos. This is approximately 3% of the total drainage area.
3. Soils onsite were determined by the Geotechnical Evaluation Report prepared by Braun Intertec dated November 29, 2021 (Project B1908718.05). The site has a soil profile of topsoil / lean clay (CL), lean clay with sand (CL), clayed sand (SC), organic soil (OL/OH), and fat clay (CH). The site is classified as HSG D. Karst soils were not encountered within the geotechnical exploration.
4. The project includes site clearing, grading, and excavation to construct the proposed residential development with associated roads, utilities, and stormwater facilities, including one wet sedimentation pond and two wet sedimentation ponds with filtration benches.
5. The proposed impervious area is 14.07 acres, which is 23% of the total drainage area and 32% of the developed property. The remaining 77% of the drainage area will be residential lawns, landscaping, stormwater management, or undisturbed existing ground. The proposed site drainage area is 62.17 acres and consists of sixteen (16) separate drainage areas.
6. Stormwater will be treated by one wet sedimentation pond, and two wet sedimentation ponds with filtration benches generally located in northwest and southwest corners of the proposed development. These BMPs will treat the runoff from the development and then discharge to "Wetland B" in the southwest corner of the site.
7. There is no FEMA floodplain or Elm Creek jurisdictional floodplain within the project limits.
8. Natural wetlands were identified within the project limits and have been identified in the submitted wetland delineation.

Rule D – Stormwater Management (plans)

Rate Controls

Rate control measures **meet** Commission standards.

1. Rate control for the site was provided by a wet sedimentation pond and two wet sedimentation ponds with filtration basins, prior to discharging to the wetland in the southwest corner of the project site.
2. The applicant provided proposed HydroCAD model output for the 2-year, 10-year, and 100-year events which are summarized in Table 1.
3. Drawdown times meet Commission standards.

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	50-year (cfs)	100-year (cfs)	100-year B2B (cfs)
To “Wetland B”	Pre-Project	65.43	147.82	232.62	275.31	301.93
	Proposed	21.21	39.93	90.15	137.92	188.84
	Change	-44.22	-107.89	-142.47	-137.39	-113.09

Low Floor Elevations

Low floor elevations for structures **meets** Commission standards and have 2-feet of freeboard above the high-water level and are at least one foot above the EOF.

BMP/Wetland Name	EOF (feet)	100-year Flood Elevation	100-year B2B Flood Elevation	Low Floor of Hydraulically Connected Structure (feet)
Basin A	961.00	960.35	960.86	969.40
Basin B	944.00	943.18	943.77	949.41
Basin C	944.00	942.44	943.40	950.00
Wetland B	-	937.26	937.34	937.00 (Tilton Trail)

1. It is noted that Tilton Trail, the road bordering the project site on the west, overtops during the 10-year event in both the existing and proposed conditions. However, the high-water levels in the proposed conditions are reduced from the existing condition.

Abstraction Controls

Abstraction controls **meet** Commission requirements.

1. Abstraction of the 1.1 inches of runoff from impervious areas is accomplished through filtration practices by the wet sedimentation ponds, Basin A and Basin B as well as by the wet sedimentation pond Basin C.
2. The proposed impervious area is 14.07 acres, which is 23% of the total 61.17-acre drainage area.

- The project is required to provide 1.1-inches of abstraction based on the new 612,889 SF of impervious surface in the amount of 1.28 acre-feet (55,757 cubic feet).

Table 2 Summary of Abstraction Credits

BMP Practice	Abstraction Comments	Abstraction Credit (acre-ft)	Abstraction Credit (cubic feet)
Basin A	Credits based on Water Quality Volume	0.75	32,670
Basin B	Credits based on Water Quality Volume	5.30	230,868
TOTAL		6.05	263,538

Water Quality

Water quality controls **meet** the Commission's standards.

- The applicant intends to provide abstraction control and water quality treatment by utilizing the proposed wet sedimentation ponds with filtration benches, Basin A and Basin B as well as by the wet sedimentation pond, Basin C.
- The applicant used MIDS models to demonstrate water quality compliance for the project. The results from the model are listed in Table 3 below.

Table 3 Abstraction Control and Water Quality Criteria Summary¹

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (ac-feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	36.7	0.0	30.0	5,443
Proposed (w/o BMP's)	56.0	1.3 (required)	45.7	8,295
Proposed (w/ BMP's)	50.5	5.5	16.8	1,185
Change	+13.8	+4.2 (excess)	-13.2	-7,110

¹ Analysis completed in MIDS calculator by ECWMC technical staff

- Although there is an increase in the annual runoff discharge from the site, the applicant has met the water quality requirements by providing more than the 1.1-inch runoff volume in the proposed basins. Additionally, the reductions for TSS and TP are 85.7 and 63.2%, respectively.

Operation and Maintenance

It is unknown who will be responsible for the long-term operation and maintenance of all stormwater management practices used within the property.

Rule E – Erosion and Sediment Control (plans)

- Plans **meet** Commission requirements for erosion and sediment control.
- The erosion and sediment control plans are consistent with current best management practices, including:

- a. Rock construction entrance
- b. Silt fence
- c. Sediment control log
- d. Double (redundant) silt fence adjacent to delineated wetland boundaries
- e. Catch basin inlet protection
- f. Stabilization of disturbed soil areas (erosion control blanket).

Rule G – Wetland Alteration

Wetland alterations **do meet** the Commission's requirements

1. The wetland delineation report shows that two wetland areas are proposed to be filled as part of the project; Wetland A and part of Wetland B. A Notice of Determination for Wetland Type and Boundary was submitted however, an approved wetland mitigation plan will be needed prior to the disturbance of these wetlands.

Rule I – Buffer Strips

Plans **meet** Commission requirements for buffer strips.

1. The site meets the Commission's standards for an average of 25-feet buffer width for lakes and wetlands, with a minimum of 10-feet in width.

Recommendation

Contingent 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.
2. Approval is contingent upon an approved wetland mitigation plan for the proposed disturbance of Wetlands A and B.
3. Approval is contingent upon an operation and maintenance plan that is approved by the City of Rogers.

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



6/1/2022
Date

Attachments

- | | |
|----------|---|
| Figure 1 | General Project Location |
| Figure 2 | Project Location |
| Figure 3 | Existing Drainage Map |
| Figure 4 | Proposed Drainage Plan |
| Figure 5 | Annotated Erosion and Sediment Control Plan |
| Figure 6 | Wetlands in Project Vicinity |

Figure 1 General Project Location

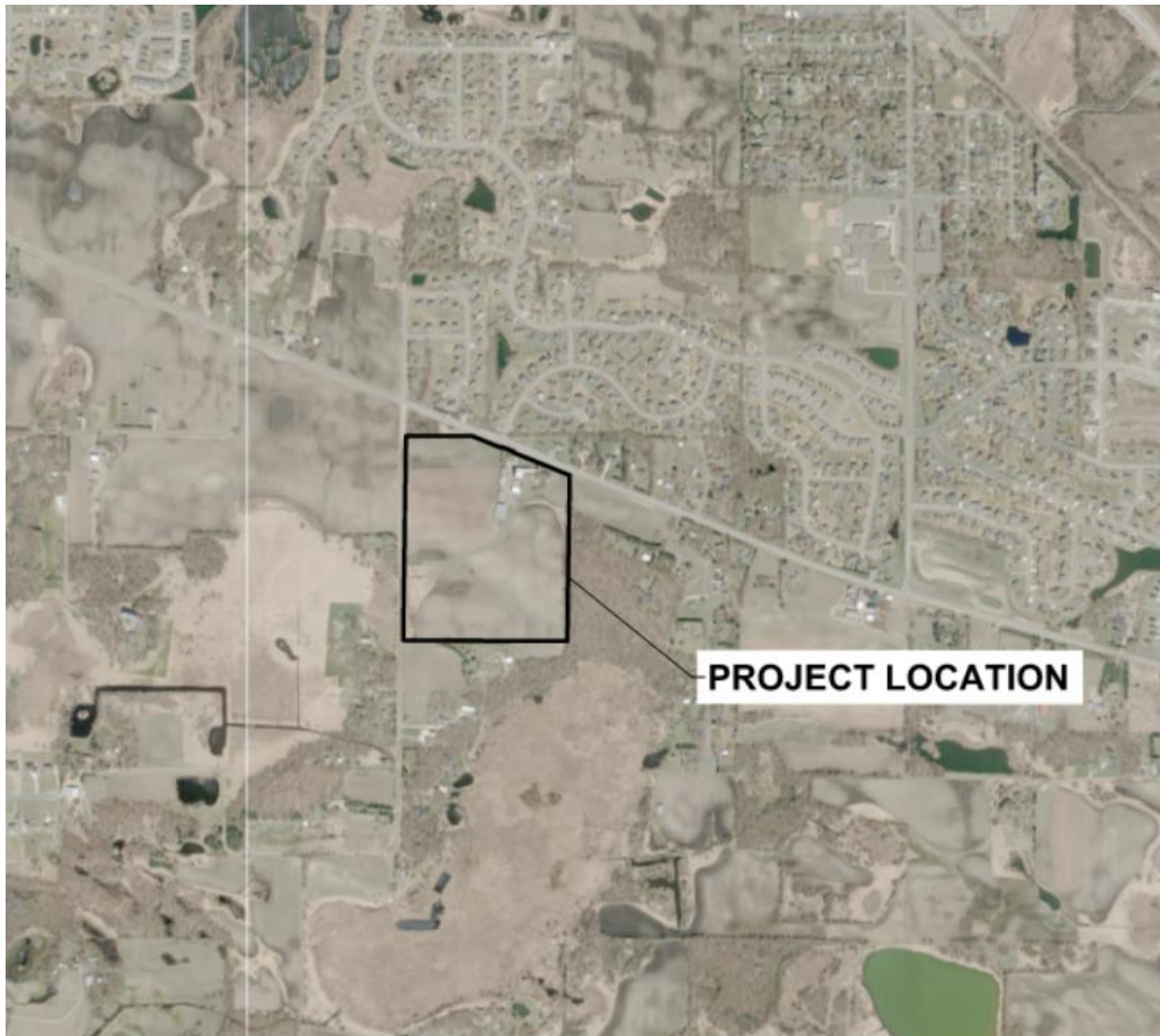


Figure 2 Project Location



Figure 3 Existing Drainage Map

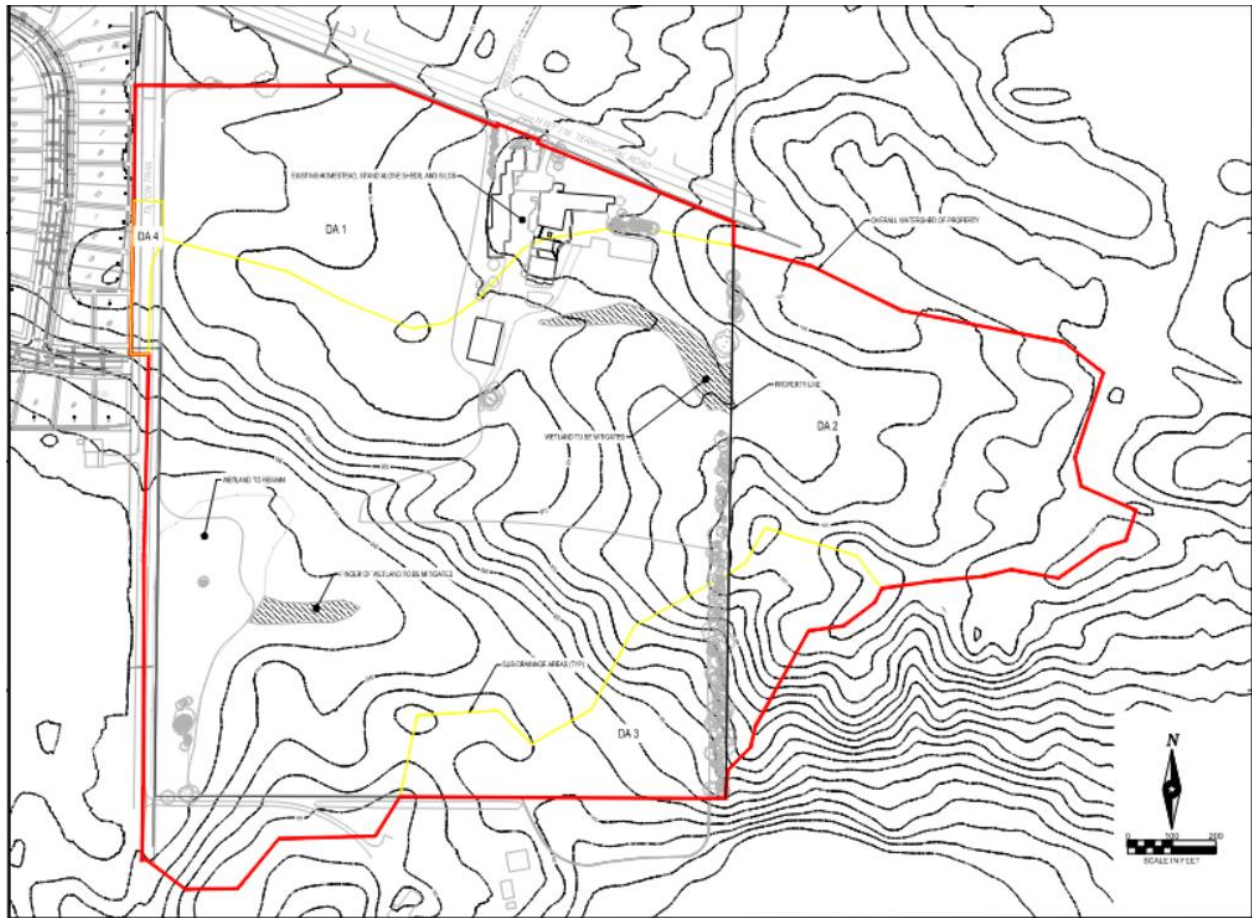


Figure 4 Proposed Drainage Plan

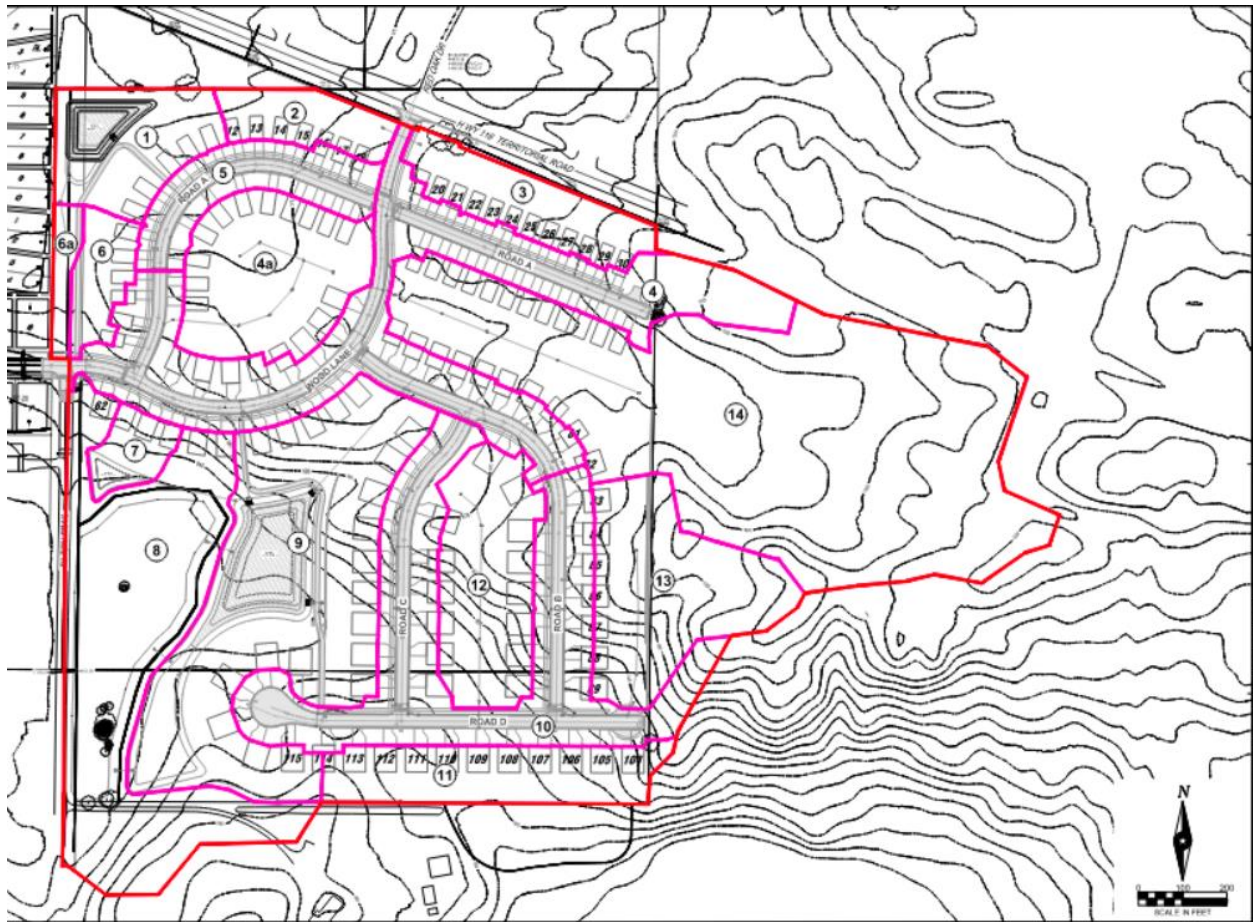
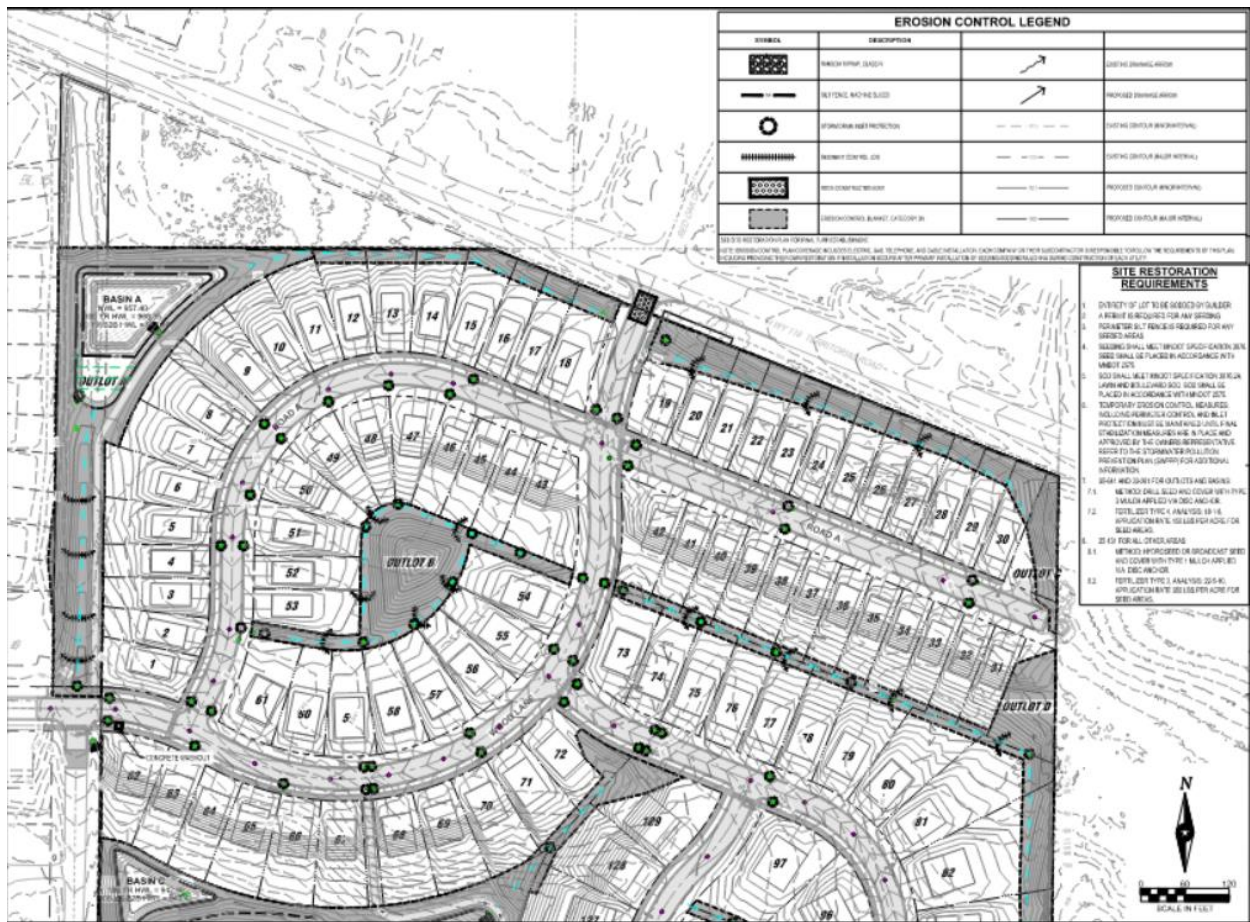


Figure 5 Annotated Erosion and Sediment Control Plan



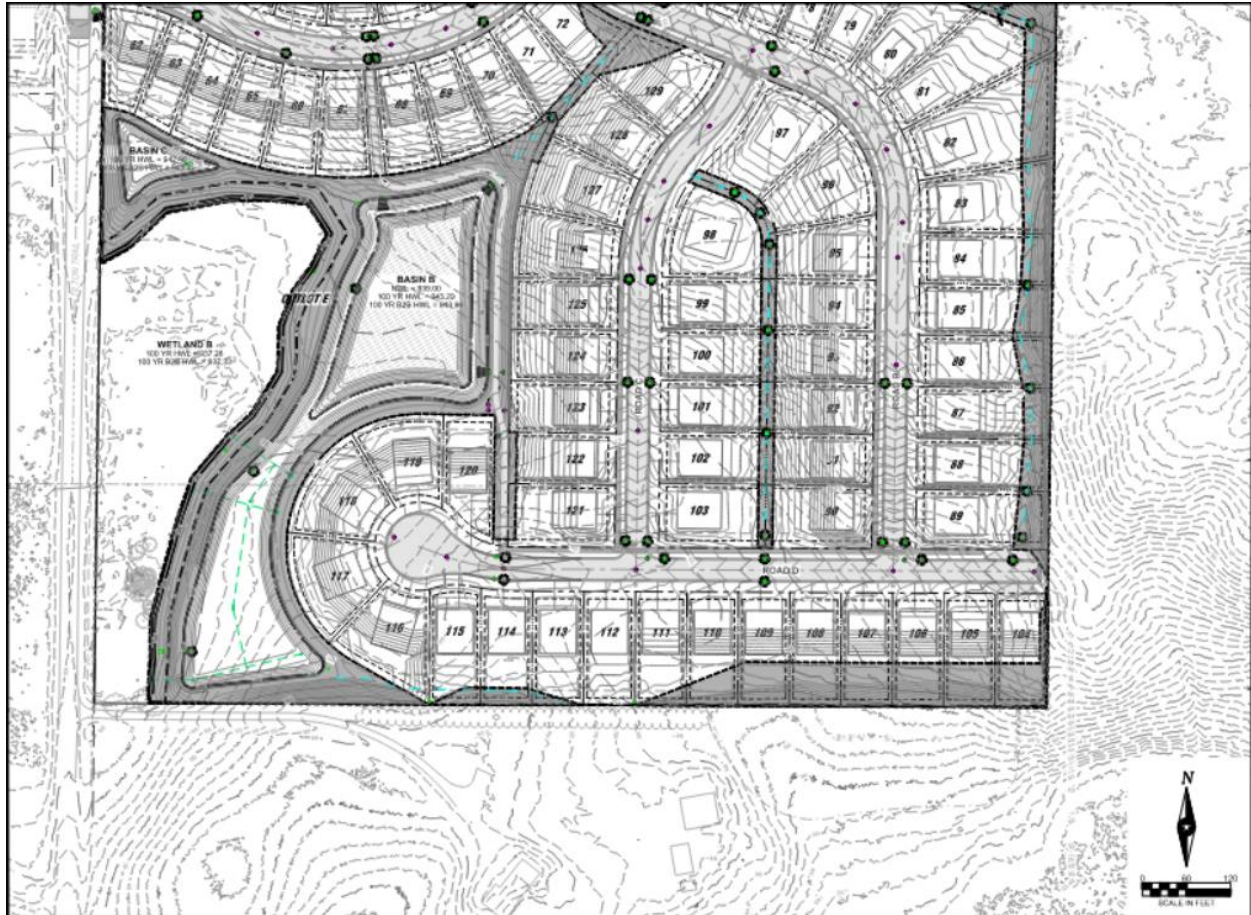


Figure 6 Wetlands in Project Vicinity



To:	ECWMC Commissioners	From:	Jordan Wochenske, Stantec Consulting Services Inc. Erik Megow, P.E., Stantec Consulting Services Inc.
ECWMC Project Number:	2022-021	Date:	June 2, 2022

Dayton 94 EAW Review

Project Overview

The Dayton 94 project is a proposed warehouse on an existing 25-acre agricultural area in the City of Dayton, Hennepin County, Minnesota. The project includes the construction of a 333,750 sq. ft. warehouse/office building located off County Road 81 (CSHA 81) near the intersection of Troy Lane. The project includes a warehouse facility, new driveway, paved parking areas, stormwater features, and installation of municipal sewer and water systems. In addition, the extension of Troy Lane roadway will occur immediately north of the Dayton 94 warehouse facility.

Proximity to Water Resources

Alliant Engineering completed a wetland delineation of the Dayton 94 site in May 2021. The City of Dayton approved the delineation and issued the Noticed of Decision in June 2021. The project identified three wetlands on site that total 0.55 acres. According to the MN DNR Public Waters Inventory, there are no public water wetlands, basins, or waterways present on the project site. However, there is a public water basin located within 0.5 mile of the project site. This public water basin is French Lake, DNR ID (27-127P) and it is an approximately 350-acre lake located directly north of the project site.

According to the MPCA impaired waters inventory, French Lake is not listed as an impaired water and does not have any special designation. French Lake connects to an impaired MN DNR public waterway, Diamond Creek (MPCA ID 07010206-525), at the northern end of the lake. Diamond Creek is impaired due to aquatic life and aquatic recreation specifically dissolved oxygen, fish and benthic macroinvertebrates bioassessments, and E. coli. However, Diamond Creek is located just over a mile away from the project site.

The National Hydrography Map (NHD) did not identify any water resources present on the project site. The National Wetland Inventory (NWI) map identified three PEM1A wetlands on site. Based on the wetland delineation, two of the NWI wetlands were located on site. The third wetland is a farmed wetland located in the northern part of the project site. The site is not located within a MDH wellhead protection area or a Drinking water Supply Management Area (DWSMA).

Managing Stormwater

The project will increase the impervious surface on site by approximately 14.5 acres and the associated pollutants carried with the runoff are expected to come from sources such as roadways, roofs, driveways, maintained lawns, and vehicular traffic. The runoff from the site is proposed to be captured by stormwater ponds that will be placed in the lowest part of the project site, in the northeast corner. Stormwater runoff quality and quantity will be designed to meet the requirements of the City of Dayton, Elm Creek Watershed Commission (ECWMC), and the MPCA National Pollutant Discharge and State Disposal System (NPDES/SDS).

Applicable ECWMC Stormwater Rules

The project will disturb more than 1 acre of land and will likely trigger the following rules for ECWMC Review:

- Rule D – Stormwater Management
- Rule E – Erosion and Sediment Control
- Rule G – Wetland Alteration
- Rule I – Buffer Strips

Currently, there are no red flags for the project and the project is on track to meet the Commissions Rules. The application should include, construction plans, a stormwater management plan, and a wetland alteration plan with proposed buffer strips.

elm creek Watershed Management Commission

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

Cook Lake Highlands Corcoran, Project #2022-022

Project Overview:

Location: This is a 53.58 acres development comprised of 4 existing parcels in both Corcoran and Maple Grove. The western parcel in Corcoran totaling 27.3 acres are 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.

Purpose: 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 expansion of County Road 10 as well. The applicant proposes removal of existing structures, woodland, shrubs and most wetlands. One biofiltration basin and one pond are proposed for the Corcoran portion of the site.

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

Applicant: JB Limited, LLC

Address: 4655 Nicols Road Suite 106
Eagan, MN 55122

Attention: Robert Machacek

Phone: 651-92597365

Email: r.machacek@yahoo.com

Agent: Civil Site Group

Address: 4931 W. 35th St. #200
St. Louis Park, MN 55416

Attention: David Knaeble

Phone: 763-234-7523

Email: Dknaeble@civilsitegroup.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	4/25/2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	4/25/2022
	<input checked="" type="checkbox"/> City authorization: Corcoran, MN	4/15/2022
	<input checked="" type="checkbox"/> Review fee: \$4,050*	4/15/2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	4/25/2022

Submittals

1. Stormwater Report dated 3/23/2022 by Civil Site Group with narrative, summaries, HydroCAD modeling output for existing and proposed conditions and P8 model results (327 pages).
2. Plans for Cook Lake Highlands with Stormwater Pollution Prevention Plan and wetland impact plan by Civil Site Group dated 3/23/2022.

Findings

General

1. A complete application was received April 25, 2022. The initial 60-day decision period per MN Statute 15.99 expires June 24, 2022.
2. The existing 27.3 acre Corcoran parcel is proposed for conversion to a multi-family building, an assisted senior living building, a daycare and detached townhomes.
3. The project will disturb 20 acres and create 8.1 acres of new impervious areas in Corcoran.
4. The FEMA floodplain for Cook Lake extends into this property. The Ordinary High Water (OHW) Level for Cook Lake is 942.1 feet NGVD 29. VERTCON translates that to NAVD88: 942.73. The city's floodplain shows that south Cook Lake overflows to North Cook Lake at 943.1, based on LIDAR the overland from North Cook Lake to Rush Creek is about 945 feet (NAVD88). The exact floodplain elevation remains in question. The limit of grading proposed is 950 ft NAVD 88. No 100 year flood elevation was provided by the applicant for the adjacent Cook Lake. In the absence of a model reflecting the 100-year elevation of Cook Lake, Corcoran allows using the OHWL plus 3 feet as the 100-year elevation.
5. The development site has areas of significant slopes, 0.25 ft/ ft. Erosion control interim measures, and frequent inspections by SWPPP inspectors are recommended to protect the slopes and Cook Lake and adjacent wetlands.

Rule D – Stormwater Management

General

1. Existing drainage patterns on this site flow largely to onsite wetlands which ultimately drain to Cook Lake. Future drainage will remain essentially the same with the exception of developed/ impervious areas largely routed through roads, gutters, storm sewer and surface drainage to a proposed permanent pond near the center of the development and a biofiltration basin on the southern portion.
2. A stormwater pond and a biofiltration basin are proposed to control flow rates and water quality for the change in land use on this site. Some of the filtration volume requirements are met in filtration ponds of the adjacent Cook Lake Edgewater project previously permitted.
3. Geotechnical evaluation soil borings done in 2018 by Haugo identifying the soils as D soils with recommended infiltration rates of 0.06 inch/hr (typ silty clay/ sandy lean clay). Groundwater was encountered at two borings on the southwest corner of the development at 971 and 985.5 ft.
4. Low Floor Elevations for grading do not meet the Commission's requirements to be than 2.0 feet above the 100-year elevation and 1.0 foot above the emergency overflow elevation to adjacent water features. Low floor on one structure on the northwest side of the larger central pond are lower than the required 968.88; the applicant will raise the low floor elevation of this structure to meet the requirement. This will be a stipulation of the permit.

- Project basins on the adjacent Cook Lake Edgewater were designed to accommodate future expansion of County Road 10 (Bass Lake Road), the basins are designed to accommodate new impervious added in Maple Grove of 1.77 acres and 3.16 acres in Corcoran.

Water Quality Controls

- Water quality controls **will meet** Commission requirements.
- Water quality loads are estimated using the P8 model for computation.
- The applicant uses NURP permanent sedimentation ponds appropriately designed for the 2.5-inch event dead pool storage, the pond has a bio-filtration shelf as well. There is another biofiltration basin proposed for the southern portion of the site as well.

Loads	Existing	Proposed (without treatment)	Proposed (with treatment)
TP (lbs)	236	287	106
TSS (lbs)	77,315	90,222	8,084

Rate Controls

- The site drains primarily to Cook Lake (about 14.6 acres of the site drains directly to Cook Lake). The reminder drains off site to a filtration basin on the south, to the southeast adjacent property, or to the west and south.
- Modeling shows rate controls for the 2-year and 10-year event **meet** Commission requirements.

Table 1 Rate of Discharge Leaving Site – Cook Lake Highlands

Condition	Existing (cfs)	Proposed (cfs)
2-year	22.5	15.8
10- year	65.9	52.1
100- year	150.2	114.9

Abstraction Controls

- Abstraction controls **meet** Commission requirements.
- New impervious areas will be 8.1 acres of new impervious area in Corcoran. The total infiltration/ filtration volume for 1.1 inches over proposed impervious required for both sites is 41,425 cubic feet for Maple Grove and 32,343 cubic feet for Corcoran side totals 73,768 cubic feet.
- Abstraction provided in the two basins, 1C and 1D on site total 20,873 cubic feet on the Corcoran side. The remaining volume mitigation is provided for the adjacent site in Maple Grove, some is also provided for a road reconstruction.

Table 3 Abstraction – Cook Lake Highlands

Abstraction Credit	Required Volume (cubic feet)	Reported Volume (cubic feet)
Biofiltration -1A	43,862	48,464
Biofiltration -1B	6,648	18,609
Biofiltration 1C	19,642	21,021
Biofiltration 1D	1,224	7,098
Total Abstraction	73,768	95,192

Rule E – Erosion Control

1. The development site has areas of significant slopes, 0.25 ft/ft. Erosion control interim measures, and frequent inspections by SWPPP inspectors are recommended to protect the slopes and Cook Lake.
2. The applicant proposes perimeter control, double silt fence around wetlands, inlet protection at catch basins, and two rock construction entrances. Erosion control blankets are proposed for all slopes steeper than 4:1.
3. Turbidity barriers are required at inlets to Cook Lake during construction until site is stabilized.

Rule F – Flood Plain

1. The FEMA floodplain for Cook Lake extends into this property. The Ordinary High Water (OHW) Level for Cook Lake is 942.1 feet NGVD 29. VERTCON translates that to NAVD88: 942.73. The city's floodplain shows that south Cook Lake overflows to North Cook Lake at 943.1, based on LIDAR the overland from North Cook Lake to Rush Creek is about 945 feet (NAVD88). The exact floodplain elevation remains in question. The limit of grading proposed is 946 ft NAVD 88. No 100-year flood elevation was provided by the applicant for the adjacent Cook Lake. In the absence of a model reflecting the 100-year elevation of Cook Lake, Corcoran allows using the OHWL plus 3 feet as the 100-year elevation which would be 945.73 feet NAVD. The lowest proposed grading is 946.
2. Provide adequate constructions staking for limits of construction and adequate interim erosion control and inspections to ensure that Cook Lake receives no fill.

Rule G – Wetland

1. The applicant **meets** the commission standards for wetland impacts. Temporary impacts to wetland A adjacent to Cook Lake are proposed totaling 9,133 sq. ft across 2 areas. Permanent impacts totaling 0.224 acres are proposed to Wetland D. The TEP recommended approval to impacts to Wetland A under 8420.0415 Subpart H, Temporary Impacts. Permanent impacts to Wetland D will be replaced through the purchase of 16,330 sq.ft. /0.375 acres of bank credits from Bank #1649.

Rule I – Buffer Strips

1. The applicant's proposal for establishing buffers around intact wetlands **meets** Commission requirements. Average buffer width requirement is 25 feet, minimum is 10.
2. Adequate buffer monumentation **is not** provided.

Recommendation

Motion: For the Commission meeting, staff recommends approval of project #2022-022 with the following condition(s):

1. *[Standard Condition]* Approval is contingent upon payment of all review fees. Additional payment may be required if the review cost exceeds escrow payment(s) submitted by the applicant.
2. Provide adequate wetland buffer monumentation.
3. Low Floor Elevations for grading do not meet the Commission's requirements to be than 2.0 feet above the 100-year elevation and 1.0 foot above the emergency overflow elevation to adjacent water features. Low floor on one structure on the northwest side of the larger central pond are lower than the required 968.88; the applicant will raise the low floor elevation of this structure to meet the requirement as a condition of the permit.
4. Turbidity barriers are required at inlets to Cook Lake during construction until site is stabilized.
4. Meet outstanding City requirements.
5. Corcoran maintains a drainage and utility easement for existing and proposed on site wetlands.
6. *The applicant shall provide a Stormwater Maintenance Agreement that acceptable to the city and the ECWMC within 90 days after the plat is recorded.*

Rebecca Carlson, P.E. (MN)
Resilience Resources, LLC
Advisor to the Commission

6/1/2022
Date

Attachments

- | | |
|----------|--|
| Figure 1 | Site Location Map |
| Figure 2 | Aerial Imagery |
| Figure 3 | Existing Drainage Pattern Map |
| Figure 4 | Proposed Drainage Pattern and Grading Plan |
| Figure 5 | Wetland Impacts |

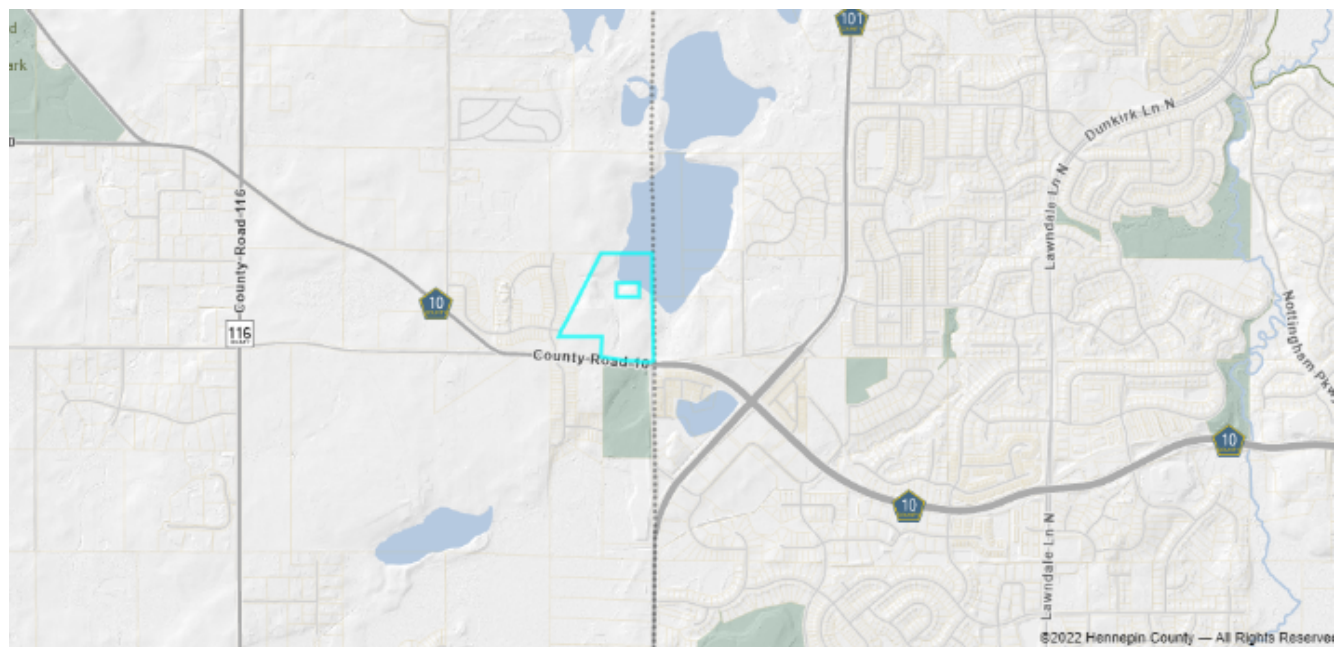


Figure 1 Site Location Map



Figure 2 Aerial Imagery

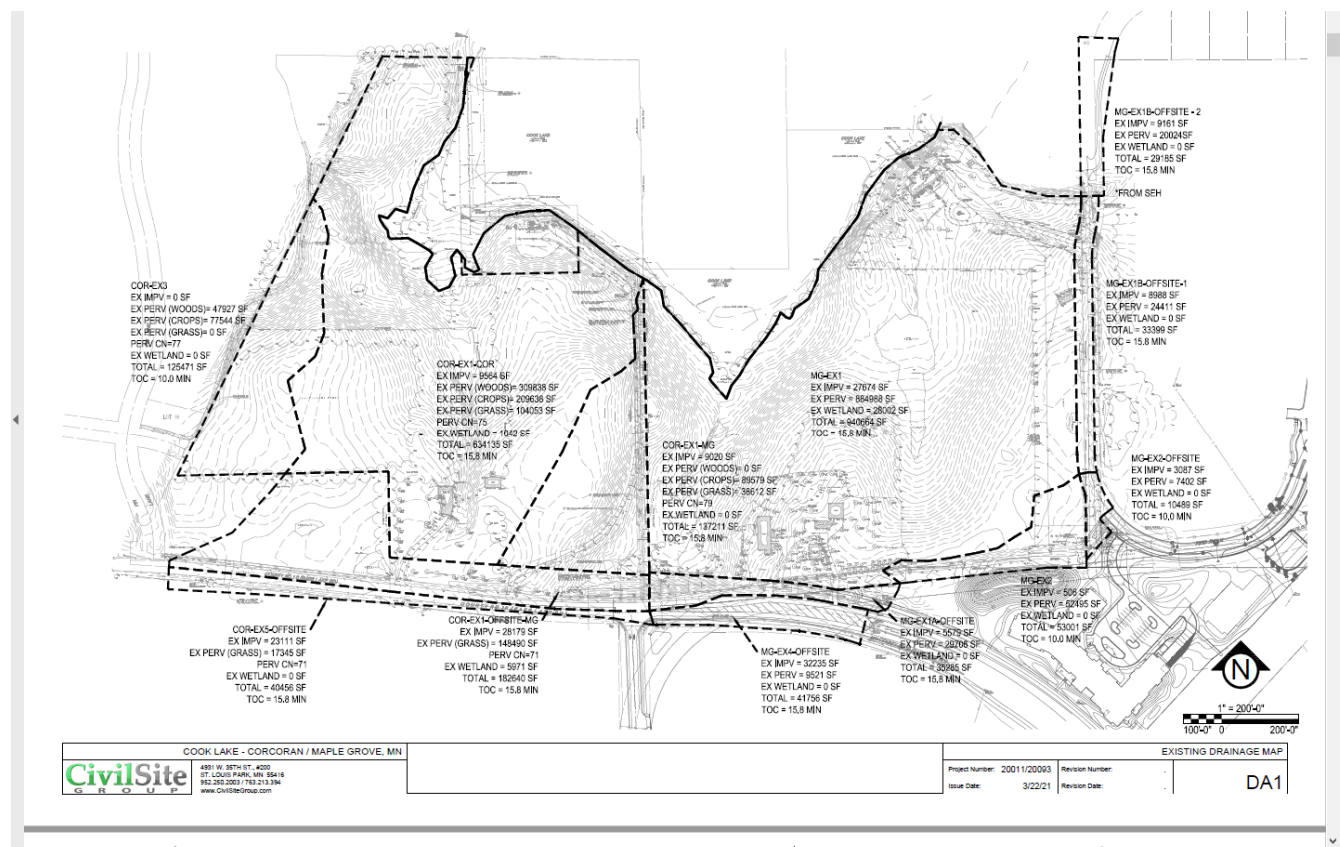


Figure 3 Existing Drainage Pattern Map

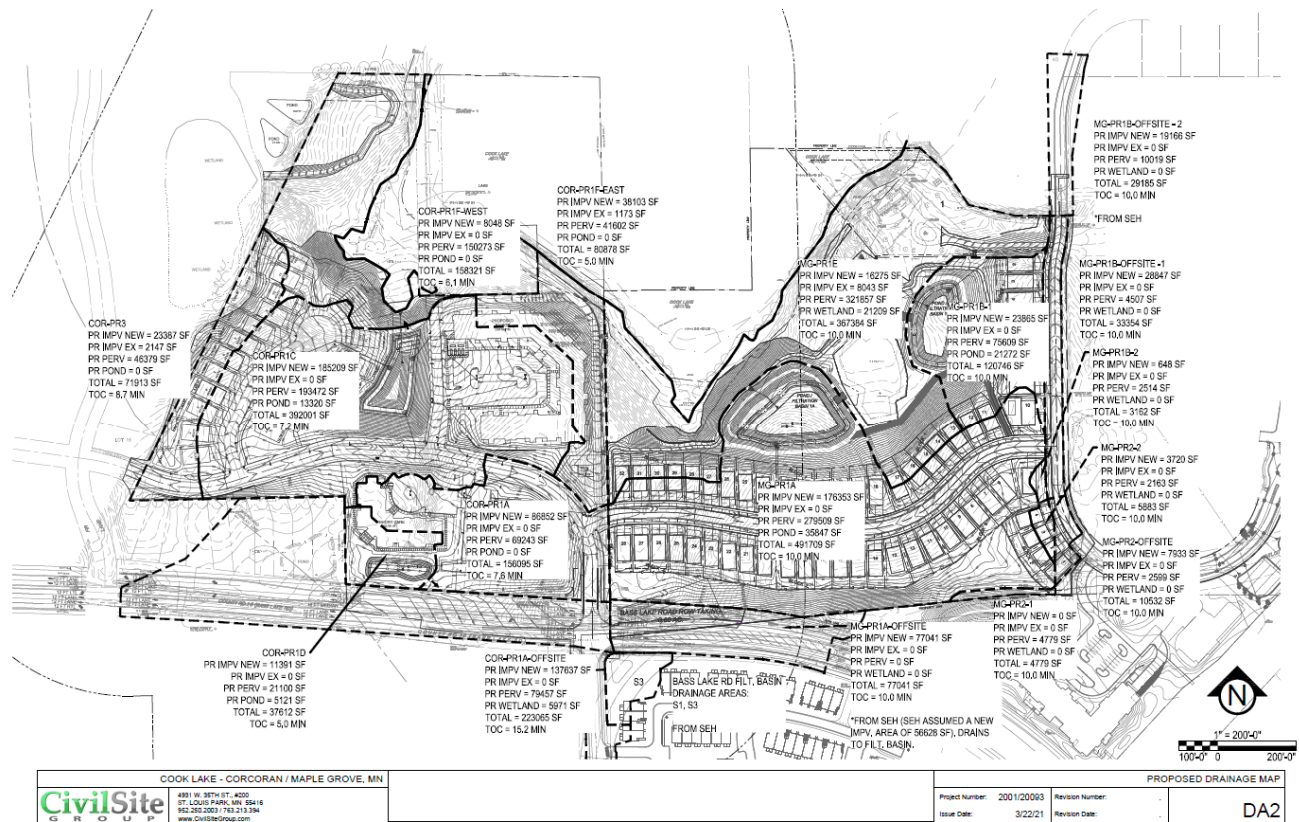


Figure 4 Proposed Drainage Pattern & Grading Plan



elm creek Watershed Management Commission

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

Bridge no. 27J70; 101st Avenue Maple Grove, Project #2022-024

Project Overview:

Location: The project involves replacing an existing double timber box culvert on the south fork of Rush Creek in the previously permitted Evanswood project (#2021-050) with a single concrete box culvert as the final condition. Delays to sourcing the planned final RCP Box culvert require an interim crossing. This permit also covers the interim installation.

Purpose: The applicant is proposing to replace a double 8'x8' timber box culverts with a 16' x 9' reinforced concrete box culvert with 1' of bury to provide habitat substrate. The project disturbs 1.33 acres with no existing impervious and adds 0.014 acres of new impervious.

The interim crossing will consist of 3 buried round 48" CMPs and a temporary roadway as overflow. The planned installation of the temporary crossing will occur in 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' x 9' box culvert.

ECWMC		Rule D	Stormwater Management
Rules	X	Rule E	Erosion and Sediment Control
Triggered:	X	Rule F	Floodplain Alterations
		Rule G	Wetland Alteration
	X	Rule H	Bridge and Culvert Crossings
		Rule I	Buffer Strips
		Rule K	Variance

Applicant:	City of Maple Grove	Attention:	Derek Asche
Address:	12800 Arbor Lakes Parkway N Maple Grove, MN 55369-7063	Phone:	763-494-6354
		Email:	dasche@maplegrovern.gov
Agent:	Stantec	Attention:	Dan Edgerton
Address:	733 Marquette Avenue, Suite 1000 Minneapolis, MN 55402	Phone:	612-712-2037
		Email:	dan.edgerton@stantec.com

Exhibits:	Description	Date Received
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Application	<input checked="" type="checkbox"/> Complete ECWMC Application	5/18/2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	4/28/2022
	<input checked="" type="checkbox"/> City authorization: Maple Grove, MN	4/19/2022
	<input checked="" type="checkbox"/> Review fee: \$3,375	4/28/2022

Submittals

1. Technical memo dated April 22, 2022 by Stantec. The technical memo summarizes the project and includes drawings and plan set.
2. HEC RAS models dated 5/10/2022 and 5/11/2022 to evaluate the impact of both the interim and proposed final replacement relative to existing conditions.

Findings

General

1. A complete application was received May 18, 2022. The initial 60-day decision period per MN Statute 15.99 expires July 17, 2022.
2. The existing twin 8'x8' timber box culverts on the South Fork of Rush Creek, with a drainage area of 21.5 square miles has a 100-year design flood is 745 cfs. The applicant proposes replacement with a single 16'x9' reinforced concrete box culvert with 1' of burry in the final condition.
3. The applicant is also proposing to use an interim crossing which will remain in place until the final 16' x 9' box culvert arrives (anticipated arrival September 2022). The interim proposed crossing passes baseflow with 3- 48" round CMP culverts, and flood flows across the roadway as a broad crested weir. The applicant has stipulated that no public traffic will cross the roadway while the temporary crossing is in place, only construction traffic, and only in flow conditions that are stable or not on a rising limb.
4. The project will disturb 1.3 acres and add 0.014 acres of impervious.
5. Stormwater management requirements are not triggered.
6. Floodplain fill and compensatory storage is proposed netting +64 CY of additional storage.
7. Existing, interim and proposed flow rates for the crossing are calculated using HEC RAS.

Rule E – Erosion Control

1. The temporary and proposed final conditions meet the Commission requirements for erosion control.
2. The applicant proposes surrounding the area with a machine sliced silt curtain, then an inner circle of biologs.
3. Applicant lists rapid soil stabilization method 4 within 24 hours of topsoil replacement for the interim condition in addition to the other measures listed.
4. A floatation silt curtain is also listed, but the final location will be dictated by the contractors selected diversion/ dewatering method. Temporary diversion alternatives 1,2, 3, 4 6 and 8 are allowed. DNR area hydrologist is required to review and approve selected method, staff recommends ECWMC also review and approve the final diversion/ dewatering alternative.
5. Erosion control for the interim crossing includes the same as above with some interim seeding and rip rap.

Rule F – Floodplain Alteration

1. The applicant's compensatory storage provided meets the Commission requirements.
2. The existing and proposed 100-year critical flood elevation is 918.3.
3. The total proposed floodplain fill is 1,149 cubic yards, less the floodplain storage within the proposed box culvert (486 CY), and two compensatory storage areas excavated totaling 727 C. The net change in flood storage is +64 CY.
4. The application proposes fill and compensatory storage. The net change is an increase of 64 cubic yards of excess flood storage.
- 5.

Rule H – Bridget and Culvert Crossings

The Commission requirements are listed below in italics with the applicant's treatment of each following in the final and interim condition.

Final Culvert:

1. *Retain adequate hydraulic capacity to pass the 100-year flow and maintain the 100-year flow profile, if available.* The 100-year design flow for the South Fork Rush Creek and its 21.5 square mile drainage area is 745 cfs. The proposed final cross section retains adequate hydraulic capacity to pass the 100-year flow.
2. *Mimic the existing base flow (1-year, 2-year) conditions.* The proposed cross section for the existing and proposed culverts are similar. The slopes are 0.22% for the existing 36 lineal foot timber culvert, and 0.80% of the proposed 150lineal foot RCP box culvert. While the 1-year return event flow was not provided, the 2- year event was provided. That coupled with the existing to proposed cross section indicates this proposed crossing meets the Commission requirement.

Condition	Plan Title	US Invert (ft)	DS Invert (ft)	US Flowline Elevation (ft)	DS Flowline Elevation (ft)	Comment
No Bridge	NO BRIDGE	--	--	--	--	--
Existing	CORRECTED EFFECTIVE	911.00	910.92	911.00	910.92	Not Buried. Length = 36'.
Proposed	PROPOSED	910.30	909.10	911.30	910.10	Buried 1'
Temporary	TEMPORARY	909.80	909.47	910.80	910.47	Buried 1'

Condition	Plan Title	2-Year Event		100-Year Event		500-Year Event	
		Flow	Headwater Elevation (ft)	Flow	Headwater Elevation (ft)	Flow	Headwater Elevation (ft)
No Bridge	NO BRIDGE	385	916.58	745	918.06	975	918.76
Existing	CORRECTED EFFECTIVE	385	916.68	745	918.65	975	919.78
Proposed	PROPOSED	385	916.61	745	918.65	975	919.83
Temporary	TEMPORARY	385	917.66	745	918.62	975	919.02

3. *Not adversely affect water quality.* Erosion control during installation, coupled with final stabilization and the buried depth should improve habitat and not adversely affect water quality.
4. *Represent the "minimal impact" solution to a specific need with respect to all reasonable alternatives.* While the applicant did not do a "minimal impact" evaluation, replacing a failing culvert with an RCP similar in size and orientation does meet this requirement. Further, the choice to provide an interim crossing was needed due to the lack of structural integrity in the existing timber culvert. The temporary crossing is needed to convey construction equipment across the bridge.
5. *Allow for future erosion, scour, and sedimentation maintenance considerations.* Class 3 Rip Rap is proposed, relative to the mean velocities modeled of 6.2 ft/ sec, class 3 is appropriate.
6. *If the project proposes changing the FEMA FIS profile, a FEMA map revision must be obtained.* The project does not propose a rise in the 100 year elevation.
7. *If the project requires a DNR Work in Public Waters permit, the conditions of that permit must be satisfied.* The applicant is in the process of obtaining a public waters permit, obtaining permit will be a stipulation of the permit requirement for the Commission as well.

Temporary Crossing

1. *Retain adequate hydraulic capacity to pass the 100-year flow and maintain the 100-year flow.* The proposed interim crossing is 3 48" CMP culverts, 63 lf, no flared end sections. The inverts are at 909.8' and the road section acting as overflow at 916.2'. The crossing can convey the 100 year flow.
2. *Mimic the existing base flow (1-year, 2-year) conditions.* There is a 1' rise in the 2 year event for the temporary crossing but the final crossing does meet the standard.
3. *Not adversely affect water quality.* Erosion control during installation, coupled with interim seeding plans and final stabilization, with the buried depth of the final culvert should improve habitat and not adversely affect water quality.
4. *Represent the "minimal impact" solution to a specific need with respect to all reasonable alternatives.* Using the temporary crossing limits the chances of failure of the crossing.
5. *Allow for future erosion, scour, and sedimentation maintenance considerations.* Interim rip rap placement should limit scour, any temporary sediment accumulated due to the interim crossing should be removed prior to installation of the final culvert.
6. *If the project proposes changing the FEMA FIS profile, a FEMA map revision must be obtained.* No rise is proposed for the 100 year event.
7. *If the project requires a DNR Work in Public Waters permit, the conditions of that permit must be satisfied.* The applicant is in the process of obtaining a public waters permit for the temporary and permanent installation as well as any dewatering/ diversion planned, obtaining permit will be a stipulation of the permit requirement for the Commission as well.

Recommendation

Motion: Staff recommends conditional approval of project #2022-024 with the following condition(s):

1. *[Standard Condition] Approval is contingent upon payment of all review fees. Additional payment may be required if the review cost exceeds escrow payment(s) submitted by the applicant.*
2. *The applicant must meet all DNR Requirements for both interim and final proposed condition as a condition of this permit, 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 DNR and Elm Creek WMC prior to construction.*
4. *The applicant must meet all City Requirements as a condition of this permit.*

Rebecca Carlson, P.E. (MN)
Resilience Resources, LLC
Advisor to the Commission

5/31/2022
Date

Attachments

- Figure 1 Site Location Map
- Figure 2 Aerial Imagery
- Figure 3 Floodway
- Figure 4 Proposed Grading, Floodplain Fill
- Figure 5 Proposed Grading, Floodplain Compensatory Storage

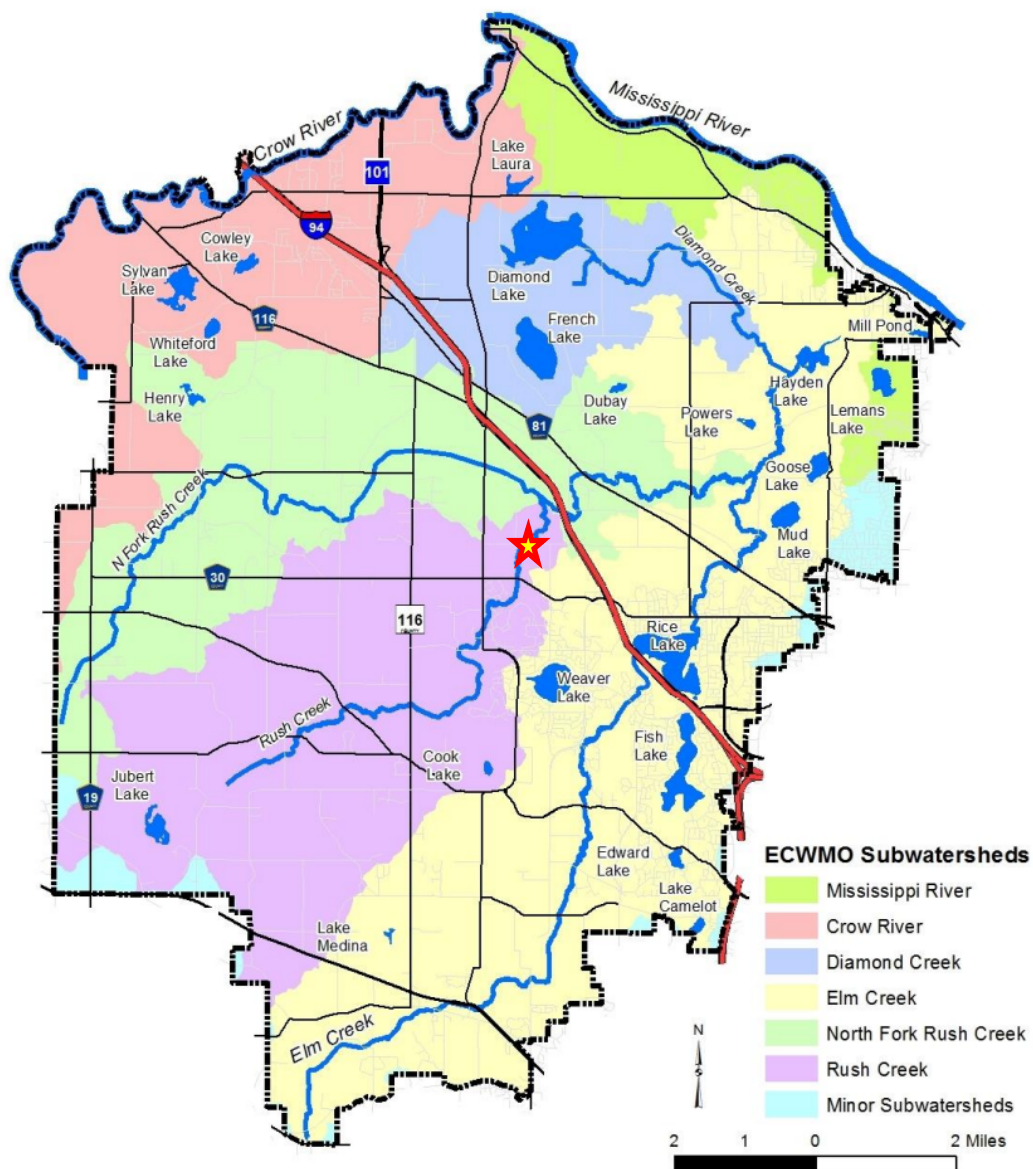


Figure 1. Site Location Map

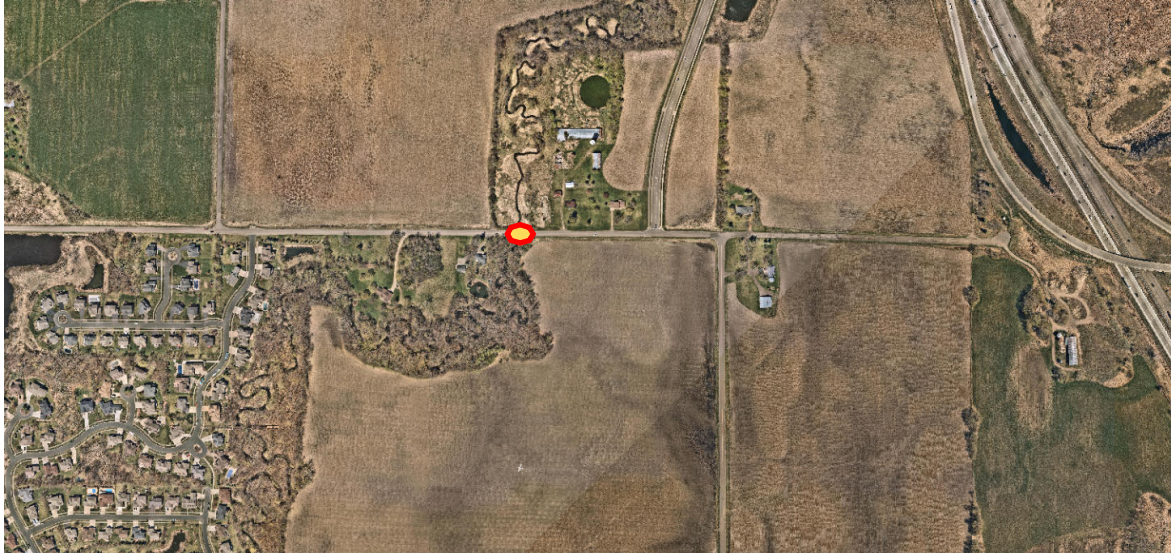


Figure 2. Aerial Imagery

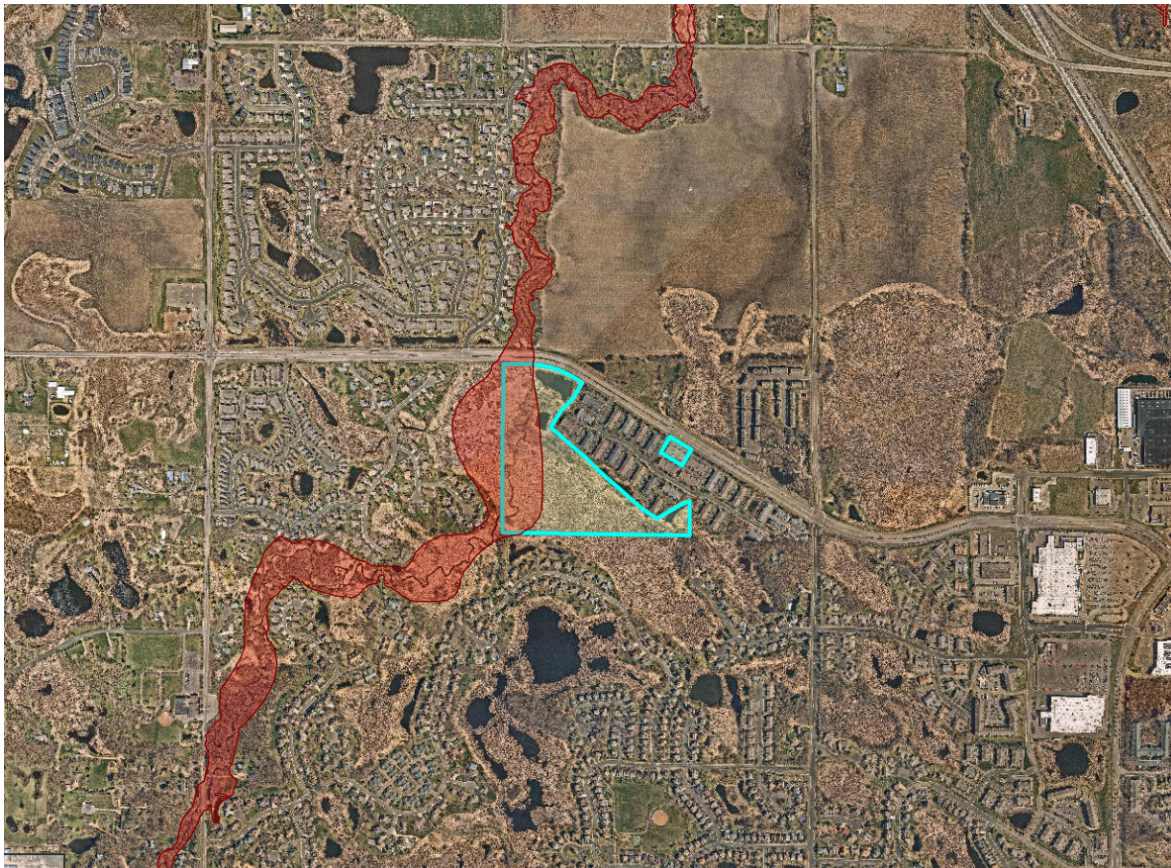


Figure 3. Floodway, 100 Year

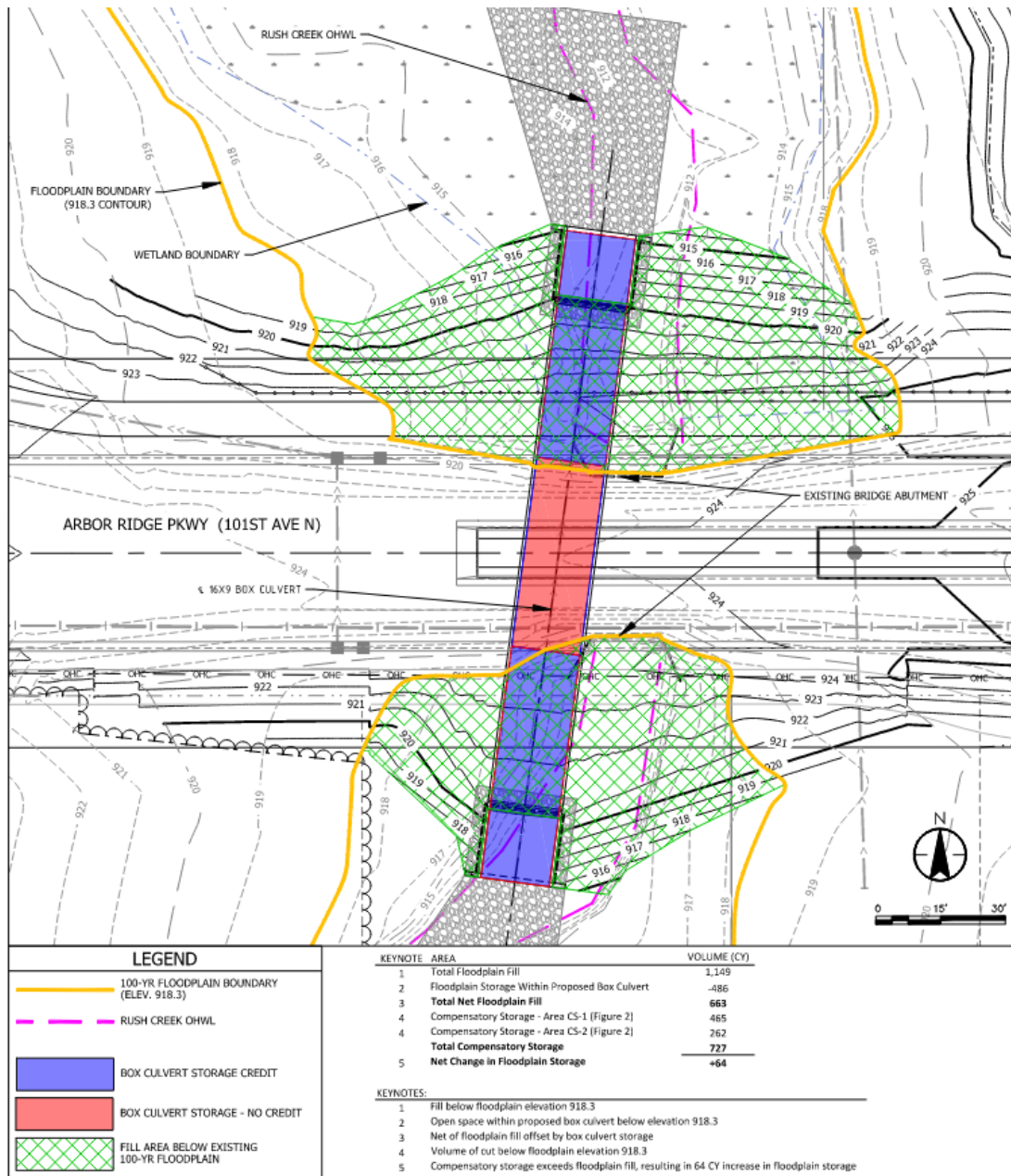


Figure 4. Proposed Grading, Floodplain

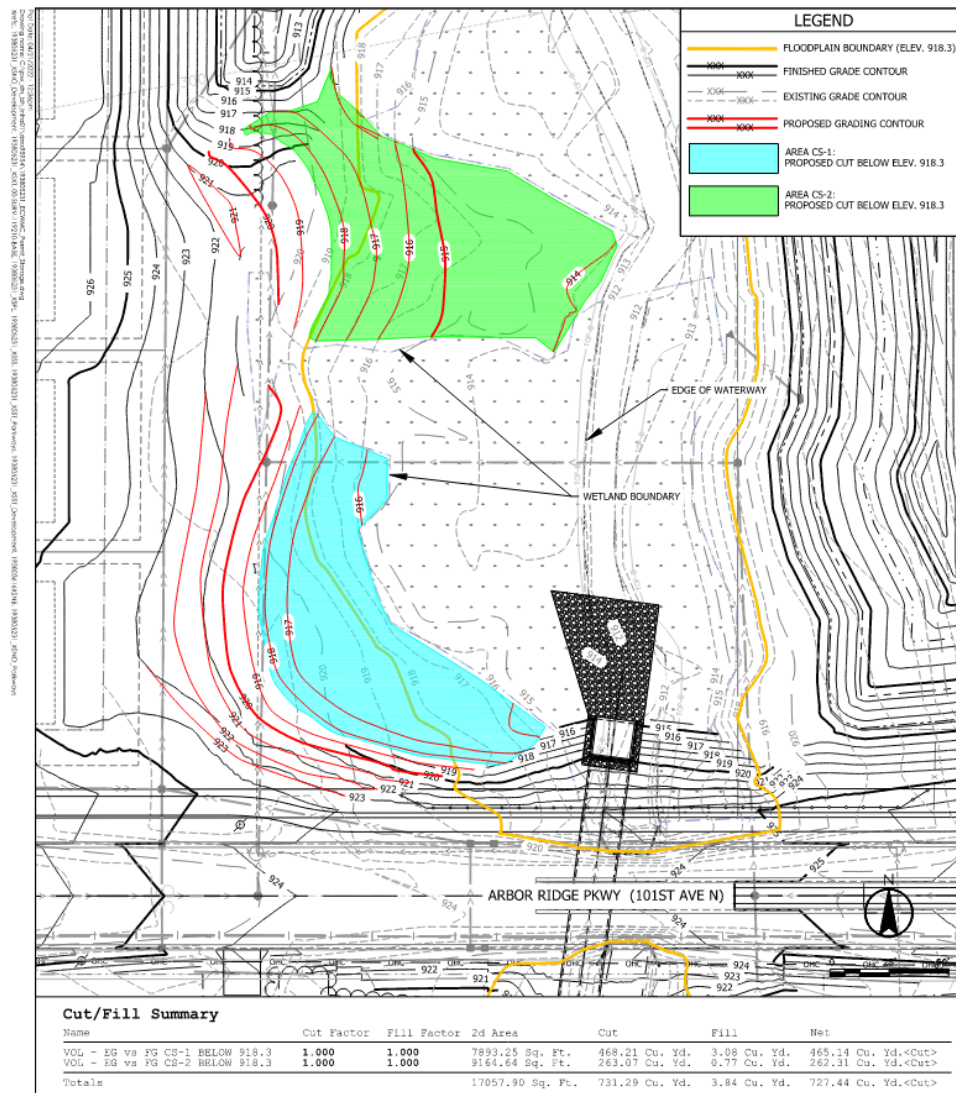


Figure 5. Proposed Grading, Floodplain Compensatory Storage

elm creek Watershed Management Commission

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

Hayden Hills Park Dayton Project #2022-029

Project Overview:

Location: 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. Hennepin County PID 2312022120076.

Purpose: 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.

WMC Rules Triggered:

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 Dayton	Attention:	N/A
Address:	12260 South Diamond Lake Road Dayton, MN 55327	Phone:	763-712-3221
		Email:	N/A
Agent:	Civil Engineering Site Design	Attention:	Scott Dahlke
Address:	P.O. Box 566 Monticello, MN 55362	Phone:	763.314.0929
		Email:	sdahlke@civilesd.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	May 16, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	May 16, 2022
	<input checked="" type="checkbox"/> City authorization: Dayton, MN	May 12, 2022
	<input checked="" type="checkbox"/> Review fee: \$675	May 16, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	May 12, 2022

Submittals

- Hayden Hills, Park Improvement Project Civil Site Design by Civil Engineering Site Design, dated March 31, 2022.
 - Sheet HH-A, Grading and Drainage Plan
 - Sheet HH-B, Storm Sewer Plan
 - Sheet HH-C, Storm Water Pollution Prevention Plan
 - Sheet HH-D, Details.

2. Elm Creek Watershed Management Commission Request for Plan Review and Approval.
3. ECWMC project file for Hayden Hills -2018-008.

Findings

General

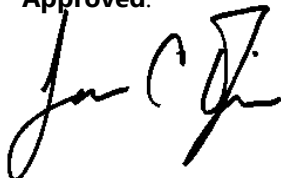
1. A complete application was received May 16, 2022. The initial 60-day decision period per MN Statute 15.99 expires July 15, 2022
2. The existing parcel is 6.47 acres.
3. Approximately 4.3 acres will be graded
4. New impervious areas within the park will be 0.5 acres
5. The park area was rough graded during the initial site development for Hayden Hills in 2018-2019.
6. The stormwater management plans approved by the Commission for project 2018-008 exceeds the Commission's current Rule D (stormwater management) standard.
 - a. The original (2018) and updated proposed site grading plans utilize two regional ponds designed to provide rate control, water quality, and volume abstraction from the park and adjacent developments.
 - b. Abstraction was provided by perimeter infiltration benches within the regional ponds.
7. No wetlands or floodplains will be affected by this site work.

Rule E – Erosion and Sediment Control

1. Plans **meet** Commission requirements for erosion and sediment control.
2. To a large extent this site is self-contained with the only discharge points being three (3) flared end culverts on the NW, NE, and south-central perimeter of the park.
 - a. Pre-construction erosion controls will consist of inlet protection for each flared end section of culvert, 120 feet of silt fence and a rock construction entrance.
 - b. During construction the site plan lists suitable measures to control erosion and sediment on site and to adequately maintain specified best management practices.
 - c. Temporary and permanent vegetation plans meet the ECWMC and MPCA vegetation and restoration requirements.
 - d. Pollution prevention measures for hazardous materials, solid waste and demolition materials are addressed on the site plans and meet MPCA requirements.

Decision

Approved.



James C. Kujawa
Surface Water Solutions
Advisor to the Commission

May 26, 2022
Date

Figure 1 Project Location



elm creek Watershed Management Commission

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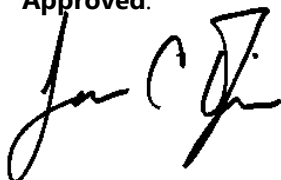
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Decision

Approved.



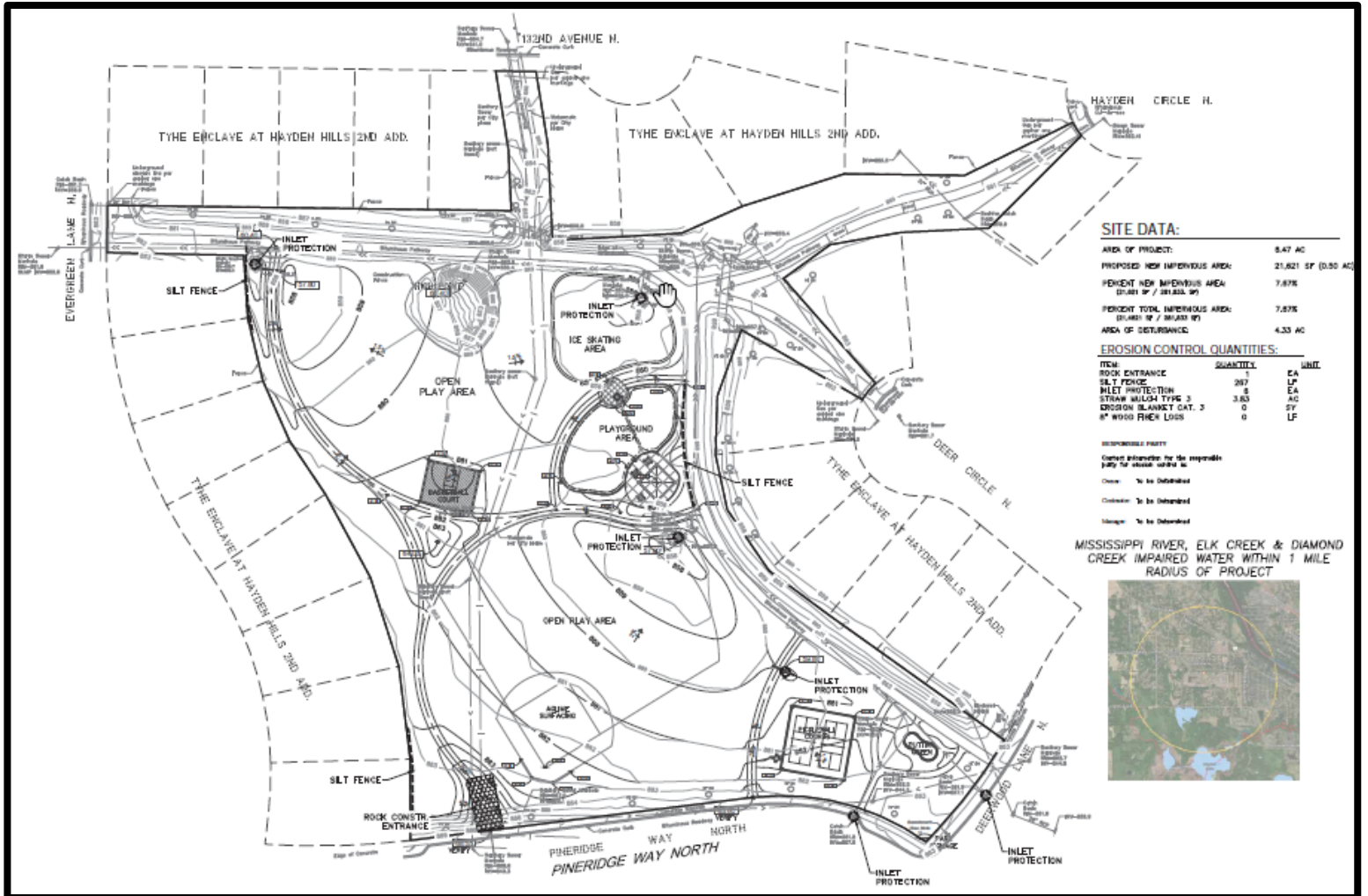
James C. Kujawa
Surface Water Solutions
Advisor to the Commission

May 26, 2022
Date

Figure 1 Project Location



Figure 2 Grading and Erosion Control Plan



To: Elm Creek WMO Commissioners/TAC

From: Budget Committee

Date: June 1, 2022

Subject: Proposed 2023 Budget

**Recommended
Commission Action**

Review and discuss. Move adoption of the proposed 2023 budget with any proposed revisions from the floor.

According to the Joint Powers Agreement, the Commission must on or before June 15 of each year adopt a budget for the coming year. Typically, the Commission would consider a preliminary budget in May of each year, either adopting it at the May meeting or holding over action to the June meeting. The budget must be transmitted along with notice of the apportionment of costs to each city by July 1. Member cities then have until August 15 to comment on or raise objections to the budget. If no objections are submitted, the budget proceeds as adopted. If objections are submitted in writing, then the Commission must hold a public hearing to consider modifying the budget or proceeding with no change.

The budget committee has met twice to review the preliminary 2023 budget. The preliminary budget was emailed to the Commissioners and TAC for their review on May 23, 2022. The 2023 budget as proposed is a continuation of the programs and activities undertaken in 2022, with some slight modifications. Figure 1 shows the proposed operating budget by expenditure category, while Table 1 shows the proposed operating and projects budget by line item. The overall proposed 2023 operating budget is a significant increase over the proposed 2022 budget, almost entirely due to the expected increase in project review work, which will be offset by the associated project review fees. However, some budget modifications are proposed:

1. The budget includes a proposed increase in the contract amount with Hennepin County to provide outreach and technical services, largely to agricultural and large-lot residential property owners but generally and across the watershed. The requested increase to \$20,000 compared to the approved 2022 contract amount of \$17,000 is offset by the elimination of the Wetland Health Evaluation Program, for which the Commission had been budgeting \$4,000 annually.
2. The budget includes a proposed \$1,275 increase from Three Rivers Park District for lake and stream monitoring to reflect increased hourly rates. The hourly rate is still significantly less than the cost to TRPD to provide this service.
3. The budget includes a \$4,500 allowance to undertake stream biological monitoring if so desired.
4. The Budget Committee continues to review the adequacy of the project review fees to recapture the cost of administering the new fee structure. No adjustment is proposed at this time. There will always be some project review related expenses that are not recoverable through review fees.
5. Some adjustments have been made to individual line items based on past experience and based on the increasing cost of doing business.

6. One source of revenue that has in the past helped to subsidize the member assessments is investment interest. A combination of higher interest rates and a significant fund balance resulted in several thousand dollars of interest income in past years. As projects have been completed and the Commission has paid out levy and grant funds for those projects, the drop in interest rates has sharply reduced interest earnings.

The 2023 budget as proposed shows a 5.4% increase in member city assessments. The Commission has not increased those assessments since 2020. Inflation has increased costs by 13.1% since the assessments were last increased, and the annual inflation rate is currently around 5.8%. It should be noted that even with this increase, the operating budget would continue to be subsidized by contributions from the cash reserves. The Budget Committee is separately contemplating a proposed cash reserves policy, including a summary of the reserve balance and use of the reserves to subsidize operations over the past five years.

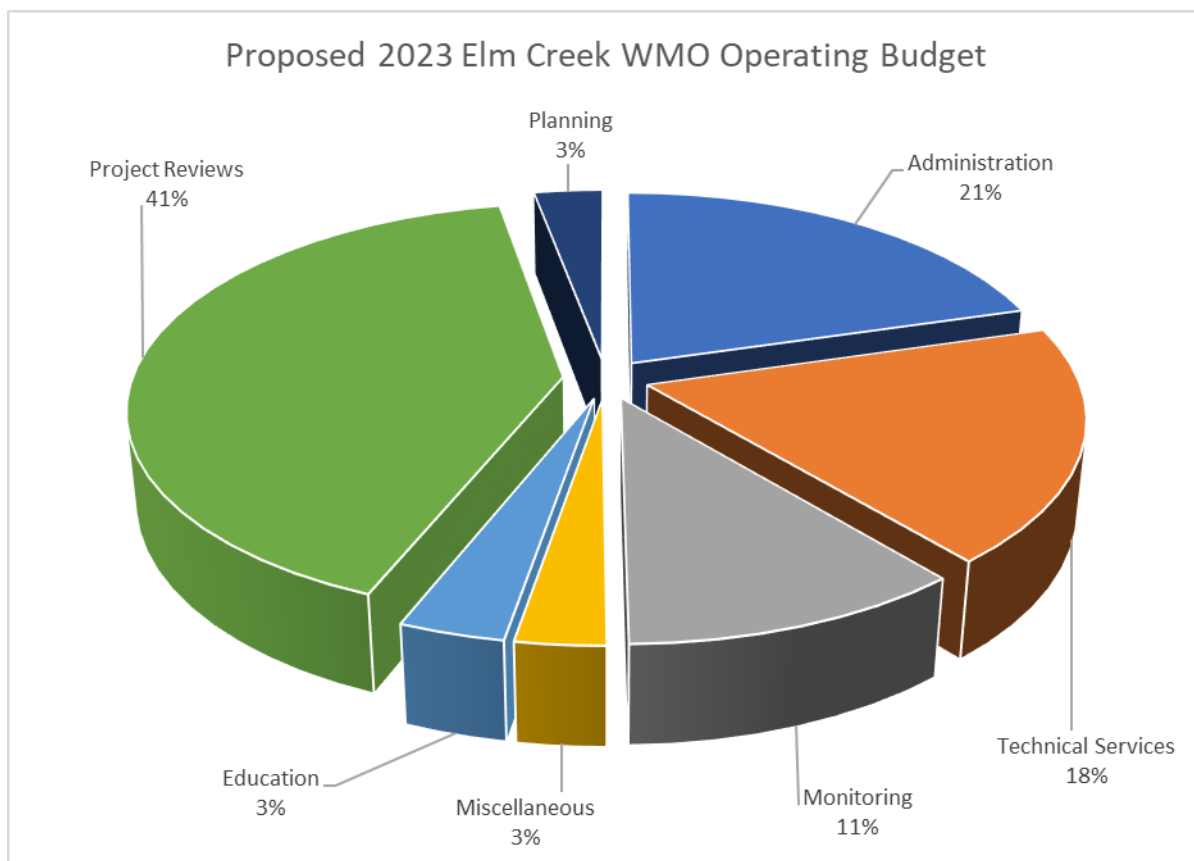


Figure 1. Proposed 2023 operating budget by expenditure category.

Table 1. Proposed 2023 budget.

Line	Category	Approved 2021 Budget	2021 Pre- Audit	Approved 2022 Budget	Proposed 2023 Budget
EXPENSES					
GENERAL OPERATING EXPENSES					
1	Administrative	95,000	101,366	95,000	100,000
2	Grant Writing	650	0	500	0
3	Website	2,000	979	3,000	2,000
4	Legal Services	2,000	1,155	2,000	2,000
5	Audit	5,000	6,000	6,000	6,500
6	Insurance	3,800	2,599	3,800	4,000
7	Tech support - HCEE	12,000	10,000	12,000	20,000
8	Contingency	1,000	-	1,000	0
	Subtotal General Operating Expenses	\$121,450	\$122,099	\$123,300	\$134,500
EDUCATION					
9	Education - City/Citizen Programs	2,500	1,304	2,500	2,000
	West Metro Water Alliance				
10	WMWA General Admin	5,000	3,000	5,000	5,000
11	WMWA Implement/ Watershed PREP	6,500	1,000	4,500	4,500
12	Workshops/BMPs/Special Projects	3,000	1,000	2,000	2,000
13	Education Grants	1,000	0	0	0
14	Macroinvertebrate Monitoring-River Watch	3,000	0	3,000	0
	Subtotal Education	\$21,000	\$6,304	\$17,000	\$13,500
WATERSHED MANAGEMENT PLAN					
15	Plan Amendments	2,000	642	2,000	2,000
16	Contribution to 4th Generation Plan	10,000	10,000	12,500	12,500
	Subtotal Watershed Management Plan	\$12,000	\$10,642	\$14,500	\$14,500
WATER MONITORING PROGRAMS					
	<i>Stream Monitoring</i>				
17	USGS	24,000	21,562	24,000	24,000
18	TRPD	7,200	7,200	9,345	10,020
19	Biological Monitoring				4,500
20	DO Longitudinal Survey	1,000	1,000	1,200	2,400
21	Partnership Biomonitoring - Comm share				2,000
22	Gauging Station - Elec Bill	400	375	420	440
	Subtotal Stream Monitoring	\$32,600	\$30,137	\$34,965	\$43,360
	<i>Lake Monitoring</i>				
23	CAMP	760	0	840	840
	TRPD				
24	Sentinel Lakes	8,100	8,100	8,460	10,412
25	Additional Lake	2,500	2,500	1,352	
26	Aquatic Vegetation Surveys	1,100	1,100	1,300	1,365
	Subtotal Lake Monitoring	\$12,460	\$11,700	\$11,952	\$12,617
27	Wetland Monitoring - WHEP	4,000	0	4,000	0
	Subtotal Other Monitoring	\$4,000	\$0	\$4,000	\$0
	Subtotal Monitoring Expense	\$49,060	\$41,837	\$50,917	\$56,477

Line	Category	Approved 2021 Budget	2021 Pre- Audit	Approved 2022 Budget	Proposed 2023 Budget
PROJECT REVIEWS and WETLAND CONSERVATION ACT (WCA)					
28	Technical - project reviews	185,000	155,080	107,500	184,000
29	Technical Support - Other		59,413	77,500	70,000
30	Administrative Support	12,000	27,806	15,000	16,000
31	WCA Expense /Surety	0	1,003	0	0
32	WCA Expense - Legal	0		0	0
33	WCA Expense - Admin	0	341	0	0
	Subtotal Project Review / WCA Expenses	\$197,000	\$243,643	\$200,000	\$270,000
SPECIAL PROJECTS, STUDIES, SWAs					
34	Special Projects, Studies, SWAs -	\$ 0	\$7,014	\$0	\$0
TOTAL GEN OPERATING EXP					
		\$400,510	\$431,539	\$405,717	\$488,477
CIPS, GRANTS					
35	CIPs	175,000	129,154	291,638	291,638
36	CIPs - General			3,000	3,000
37	Grants	125,000		125,000	125,000
38	Floodplain modeling	0	29,385	0	0
39	Rush Creek SWA Implementation	0		106,050	106,050
	Subtotal CIPs, Grants, Special Projects	\$300,000	\$158,539	\$525,688	\$525,688
TOTAL EXPENSES					
		\$700,510	\$590,078	\$931,405	\$1,014,165
REVENUE					
GENERAL OPERATING REVENUE					
40	Membership Dues	237,300	237,300	237,300	250,000
41	Interest Income	15,000	179	5,000	500
42	Dividend Income	250		250	250
43	TRPD Cooperative Agreement	5,500	5,230	6,000	6,500
	Subtotal General Operating Revenue	\$258,050	\$242,709	\$248,550	\$257,250
PROJECT REVIEW and WCA REVENUE					
44	Project Review Fees	100,000	200,756	107,500	184,000
45	Contingency			10,750	
46	Nonrefundable Admin			15,000	16,000
47	Nonrefundable Tech			16,125	17,000
	Subtotal Project Review / WCA Revenue	\$100,000	\$200,756	\$149,375	\$217,000
SPECIAL PROJECTS, STUDIES, SWAs REVENUE					
48	Special Projects, Studies, SWAs	0	0	0	0
TOTAL GEN OPERATING REVENUE					
		\$358,050	\$443,465	\$397,925	\$474,250
OPERATING SURPLUS OR DEFICIT					
		\$42,460	\$11,926	\$7,792	\$(14,227)
CIPS, GRANTS REVENUE					
49	CIPs	185,588	138,249	291,638	291,638

Line	Category	Approved 2021 Budget	2021 Pre- Audit	Approved 2022 Budget	Proposed 2023 Budget
50	Grants	100,000	189,691	125,000	125,000
51	Rush Creek SWA Implementation			79,537	79,537
52	from Assigned Fund Balance			26,513	26,513
	Subtotal CIPs, Grants	\$285,588	\$327,940	\$522,688	\$522,688
PROJECT SURPLUS OR DEFICIT		\$(14,412)	\$169,401	\$(3,000)	\$(3,000)
TOTAL REVENUES		\$643,638	\$771,405	\$920,613	\$996,938
53	(To) From Unrestricted Cash Reserves	\$56,872	\$(181,327)	\$10,792	\$17,227
TOTAL SURPLUS OR DEFICIT		\$0	\$0	\$0	\$0

2023 Budget Explanation

Line	Comment
EXPENSES	
1	This line item is to provide administrative support (scheduling, minutes, etc.) for regular Commission and TAC meetings and any Commission, TAC, or other meetings that require support, as well as general administrative duties such as notices, mailings, and correspondence.
2	The cost of writing and administering grants.
3	The annual cost of hosting the Commission's website and general content updates.
4	The legal cost of reviewing, drafting policies and variances, reviewing contracts and agreements.
5	The cost of the required annual financial audit.
6	The cost of maintaining insurance.
7	The annual contract cost for education and outreach activities provided by Hennepin County Environment and Energy (HCEE) staff working with landowners to address erosion issues and implement conservation. Public engagement, answering landowner's general land and water resource management questions, and best management practice (BMP) project development, design, and construction. Proposed to increase from the 2022 contracted amount of \$17,000 to \$20,000.
8	A line item for unexpected expenses. Proposed to be discontinued in 2023 as the Commission's unrestricted fund reserves are adequate to provide for those unanticipated costs.
9	Ongoing outreach and education costs not undertaken through WMWA.
10-12	The Commission participates in the West Metro Water Alliance (WMWA), and contributes to funds to support coordinated messaging, workshops, classroom activities, and special projects on a regional basis.
13	In the past the Commission has made small grants available to educators or citizen groups to support education and outreach. No requests have been received for several years, so this program is proposed to be phased out.
14	Volunteer macroinvertebrate monitoring coordinated by HCEE. Due to the COVID pandemic, this program has been on hold and is now ramping back up. The County anticipates that it will not bill the Commission in either 2022 or 2023.
15	The cost of undertaking periodic minor plan amendments, usually to revise the CIP or make adjustments to the development rules and standards. Cost is typically publication costs and staff time to develop the amendment documents.
16	The Commission's 3 rd Generation Plan expires on October 23, 2025. Work on the 4 th Generation Plan should commence by early 2024. Funds are set aside annually in a restricted account for this purpose.
17	The Commission jointly funds the operation of the USGS gauging station in Elm Creek Park near Elm Creek Road.
18	The Commission contracts with Three Rivers Park District (TRPD), who provides flow and water quality monitoring at three locations in the watershed.

Line	Comment
19	The Commission has undertaken minimal biological sampling on the streams in the watershed.
20	The Commission will contract with TRPD to undertake two longitudinal surveys of dissolved oxygen in impaired streams, which include taking a sequence of DO readings along points in the stream very early in the morning when DO is at its lowest, from an upstream point to a downstream point of interest. This shows a gradient of DO in the stream.
21	This funding would be available to cost share in post-construction stream biological monitoring undertaken by one or more city partners.
22	The Commission is responsible for the cost of electricity to the USGS gauging station.
23	Volunteer lake monitoring through the Met Council's Citizen Assisted Monitoring Program (CAMP). One lake is monitored per year.
24-26	The Commission contracts with TRPD to perform water quality monitoring and aquatic vegetation surveys on six lakes per year. The data is summarized in an annual report.
27	Volunteer wetland monitoring coordinated by Hennepin County Environmental Services through the Wetland Health Evaluation Program (WHEP). Hennepin County has discontinued the program in 2022.
28	This line item is for project reviews, review of Local Water Management Plans and Comprehensive Plan amendments and updates, and general inquiries about past and upcoming projects. It is difficult to predict what the expense for a coming year will be, as it is based on the number of project reviews, inquiries, etc. received. The proposed budget is based on the increasing number of project reviews each year. This expenditure is mostly offset by the project review fees.
29	This line item is for general engineering support, including preparation for and attendance at Commission and TAC meetings, general technical and engineering assistance, special projects, assistance with the budget and CIP, etc.
30	This line item is for administrative support of project reviews, including correspondence, tracking, bookkeeping, and invoicing. This expenditure is mostly offset by the project review fees.
31-33	The Commission no longer acts as the Wetland Conservation Act (WCA) administrator for wetland impacts, so these line items simply show previous years' expenses.
34	The cost of undertaking special studies or subwatershed assessments, etc. These are no longer undertaken through the operating budget, so this line item simply shows previous years' expenses.
35-36	The cost of undertaking levy-funded capital improvement projects. This line item is still in development for 2023.
37	The cost of undertaking grant-funded capital improvement projects. This line item is still in development for 2023.
38	The cost of undertaking the HUC-8 floodplain modeling through the now-closed DNR grant.
39	The cost of undertaking grant-funded projects in the Rush Creek Headwaters SWA area. This is contracted through Hennepin County. This line item is still in development for 2023.
REVENUES	
40	Annual assessments to the member cities to pay the operating expenses of the Commission. Assessments are apportioned based taxable market value of land within the watershed. Assessments did not increase 2020-2022. The proposed 2023 assessment is a 5.4% increase.
41	Interest rates have fallen, and the 4M Fund balance the Commission maintains has been drawn down as projects have been finalized. We expect greatly reduced interest earnings in the future.
42	Income received as dividends.
43	The Commission's contract with TRPD includes reimbursement from the Park District to the Commission for the value of services provided.
44	The application fee structure is intended to recover the cost of completing current project reviews. While the fees do not fully fund that activity, they are set and periodically reviewed and adjusted to recover a majority of the cost. It is difficult to predict and budget for project review revenues and fees because it varies based on the economy.
45	The Commission's project review fee is calculated as a baseline escrow amount for each rule section that is triggered, plus an additional 10% of the total as a contingency. Unused funds are refunded to the applicant, while shortages are invoiced.

Line	Comment
46	The Commission's project review fee includes a nonrefundable fee of 10% of the total review fee to cover the costs of administration.
47	The Commission's project review fee includes a nonrefundable fee of 15% of the total review fee to cover the costs of general technical services.
49-51	Funds received toward other levy funded, grant funded, or Rush Creek SWA implementation project expenses. This line item is still in development for 2023.
52	Funds contributed toward CIP or grant funded projects from cash reserve accounts assigned for that purpose. This line item is still in development for 2023.
53	When expenses are less than collected revenues, the balance is transferred to the unrestricted cash reserves. When expenses are greater, balance is transferred from the cash reserves.

**Elm Creek Watershed Management Commission -
Proposed 2023 Member Assessments**

2021	2020 Taxable Market Value	2021 Budget Share		Increase over Prev Year	
		%age	Dollars	%age	Dollars
Champlin	586,080,150	4.13%	9,801.07	0.33%	33
Corcoran	945,017,350	6.66%	15,803.61	1.09%	171
Dayton	859,590,989	6.06%	14,375.02	6.14%	832
Maple Grove	7,002,119,108	49.35%	117,097.09	-2.03%	-2,432
Medina	1,117,455,738	7.87%	18,687.32	-1.57%	-298
Plymouth	1,634,614,359	11.52%	27,335.81	6.66%	1,706
Rogers	2,045,081,387	14.41%	34,200.09	-0.04%	-12
Totals	14,189,959,081	100.00%	237,300.00	0.00%	0
2022	2021 Taxable Market Value	2022 Budget Share		Increase over Prev Year	
		%age	Dollars	%age	Dollars
Champlin	603,102,432	3.940	9,349.36	-0.05	-452
Corcoran	1,053,101,089	6.880	16,325.28	0.03	522
Dayton	1,000,693,347	6.537	15,512.85	0.08	1,138
Maple Grove	7,344,495,742	47.979	113,855.14	-0.03	-3,242
Medina	1,187,298,004	7.756	18,405.62	-0.02	-282
Plymouth	1,887,099,770	12.328	29,254.02	0.07	1,918
Rogers	2,231,809,062	14.580	34,597.74	0.01	398
Totals	15,307,599,446	100.000	237,300.00	0.00%	0.00
2023	2022 Taxable Market Value	2023 Budget Share		Increase over Prev Year	
		%age	Dollars	%age	Dollars
Champlin	807,005,389	3.942	9,353.65	0.00	4
Corcoran	1,544,836,780	7.546	17,905.53	0.10	1,580
Dayton	1,644,909,207	8.034	19,065.43	0.23	3,553
Maple Grove	9,535,464,544	46.575	110,521.42	-0.03	-3,334
Medina	1,515,134,760	7.400	17,561.27	-0.05	-844
Plymouth	2,517,439,300	12.296	29,178.54	0.00	-75
Rogers	2,908,759,834	14.207	33,714.17	-0.03	-884
Totals	20,473,549,814	100.000	237,300.00	0.00%	0.00
2023	2022 Taxable Market Value	2023 Budget Share		Increase over Prev Year	
		%age	Dollars	%age	Dollars
Champlin	807,005,389	3.942	9,854.24	0.05	505
Corcoran	1,544,836,780	7.546	18,863.81	0.05	2,539
Dayton	1,644,909,207	8.034	20,085.78	0.05	4,573
Maple Grove	9,535,464,544	46.575	116,436.39	0.05	2,581
Medina	1,515,134,760	7.400	18,501.12	0.05	96
Plymouth	2,517,439,300	12.296	30,740.14	0.05	1,486
Rogers	2,908,759,834	14.207	35,518.51	0.05	921
Totals	20,473,549,814	100.000	250,000.00	0.00%	12,700.00

elm creek Watershed Management Commission

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STAFF REPORT June 1, 2022

- a. 2017-050W Ernie Mayers Wetland/floodplain violation, Corcoran.** The City of Corcoran contacted the Commission in December 2017 concerning drainage complaints on Mayers' property. Technical Evaluation Panels (TEPs) were held in 2017 and 2018 to assess the nature and extent of the violations and a restoration order was issued to Mayers. In October 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 November or December of 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 it is 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. Said agreement must be 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

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with the City of Dayton, 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 of Dayton. 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 only remaining item is the escrow balance.

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. The project was 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. The Commission approved this project at its 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. The Commission approved this project at its 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.

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. The developments 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. At the December meeting, in their Findings dated November 22, 2021, and revised December 8, 2021, Staff recommended approval with five conditions: (1) return of surplus 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. The Commission approved this project at its 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.

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 these office buildings and constructs a church on the 10.56-acre parcel. The project was reviewed for Rules D, E, G, and I. The Commission approved the project at its 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 remaining 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 on the site. The project was reviewed for Rules D and E. The Commission approved the project at its February 2022 meeting contingent on two conditions: receipt of escrow fee balance and a Stormwater Maintenance Agreement enacted between the applicant and the city.

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. The Commission approved the project at its 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 the following four conditions. (1) Reconciliation of escrow fees when all conditions for approval are met, and (2) Wetland replacement plan approvals from the LGU must be provided for the Commission's review and must be approved by the LGU prior to any temporary or permanent impacts, and (3) Long term operation and maintenance of the regional and localized basins must be provided per Commission's requirements. and (4) Corcoran grading approval. All items have satisfied except for the escrow balance.

p. 2021-049 Dayton Business Interchange, 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. Preliminary comments and request for revisions were provided to the applicant on November 19. Revised plans received in January and April have been reviewed, but do not meet the Commission's requirements. No new revisions were received this past month. *The applicant extended the 15.99 deadline to July 4, 2022.*

q. 2021-050 Evanswood, Maple Grove. This proposed development will construct 227 single-family and

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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. Staff recommended approval at the March meeting contingent on five conditions: (1) final escrow balance being 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. Pursuant to Commission Resolution No. 2005-01, 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.

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 is being reviewed for Rules D and E. Initial comments were sent to the applicant on December 16 and Staff received responses on January 25. Staff recommend approval contingent on 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 is being reviewed for Rules D, E, and G. Revisions were received on April 7, 2022, and the project meets the Commissions' standards. *This project received approval 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.*

u. 2021-054 Stotts Family Farm Grassed Waterways, Corcoran. A complete application was received on December 23, 2021. 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 contingent upon escrow review and release.

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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 Project (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 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 the Commission's 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. *This project will be on the Commission's June agenda for their decision. Project review and findings are included in the packet.*

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 balance.*

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 is working on revisions requested by Staff on March 9, 2022. No recommendation is available for the Commission at this time.

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

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the 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 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 has since been 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 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 the associated streets, utilities, and stormwater management basin. The Commission review covers Rules D and E. *This project received approval at the Commission's 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 the 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. The current site design does not meet Commission requirements. Staff provided their initial review comments on March 16. The 15.99 deadline was extended to July 6, 2022. No revisions have been received as of this update.

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, an ECWMC application for erosion control (Rule E) will be necessary, assuming the stormwater management is consistent with this approval. An erosion control and

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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.

ag. 2022-012 Graco Building 2, Dayton. *Graco purchased this property that was the Liberty Industrial Center. The Liberty Industrial Center was 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. A complete plan was received on 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 April 8 and 29 for compliance to our rules. Findings and comments have been provided to the applicant. Updated revisions have not been received as of this report. The applicant is requesting administrative approval for their grading and erosion control plans prior to the Commission's July 2022, meeting. If said 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 can be granted prior to the July 13, 2022, Commission meeting.*

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 on April 28, 2022. *The project meets the Commissions' standards and will be on the Commission's June agenda. Project review and findings are included in the packet.*

aj. 2022-015 County Road 47 Phase 1 Reconstruction., Plymouth. Hennepin County and the City of Plymouth are proposing to reconstruct approximately 4 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 covers Rules D, E, and H. A complete application was received on April 4, 2022, and updated plans and submittals were April 27, 2022. *The project meets the Commissions' standards and will be on the Commission's June agenda. Project review and findings are included in the packet.*

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 covers Rules D, E, G and I. A complete

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plan was received March 30, 2022. Initial comments were sent to the applicant on April 14, 2022, and subsequent resubmittals were received on April 27, 2022. The project meets the Commissions' standards. *At their May 11, 2022 meeting the Commission approved this project with four 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 proposed 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. *Staff recommends the Commission approve this project per their findings and recommendation in the June 2022 meeting packet.*

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 the Commissions' standards and will be on the Commission's June agenda for their decision.*

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. *If available, updated findings and recommendations will be made available at the Commission's meeting.*

ao. 2022-020 Sky 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 covers Rules D, E, G, and I. A complete application was received on April 21, 2022. Initial comments were sent to the applicant on April 27, 2022. *The project meets the Commission's standards and will be on the Commission's June agenda for their decision.*

ap 2022-021 Dayton 94 EAW. The Dayton 94 project is a proposed warehouse on an existing 25-acre agricultural site. The project includes the construction of a 333,750 sf warehouse/office building located off County Road 81 (CSAH 81) near the intersection of Troy Lane. *Staff is reviewing the EAW and will provide comments at the June Commission meeting.*

aq. 2022-022 Cook Lake Highlands, Corcoran/Maple Grove. This is a 53.58-acre development comprised of 4 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 site 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 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. Staff intends to recommend conditional approval at the June 2022 meeting.

ar. 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. *A complete Application was received April 28, 2022, and re-submittals to address comments were received May 24, 2022. A second round of comments were sent to the applicant on May 27, 2022. No recommendation is available at this time.*

as. 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 3 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. Staff recommends approval of the replacement and the interim condition with stipulations at the June 2022 meeting.

at. 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 resubmittals were received on May 25th. These re-submittals are currently under review by Staff. No recommendation is available at this time.*

au. 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.*

av. 2022-027 Edison at Maple Grove Apartments, Maple Grove. *The project is located in Maple Grove 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 comments were sent to the applicant on May 26, 2022. Staff is currently awaiting re-submittal and no recommendation is available at this time.*

aw. 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. Because of grading within the Mississippi floodplain this project is still considered incomplete. Initial comments have been provided to the applicant.*

ax. 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*

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*under project 2018-008. Staff reviewed this plan for Erosion and Sediment Control Rule E only. Site plans conformed to said rule and were **administratively approved**. Except for the escrow reconciliation, no further action is necessary.*

ay. 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. Site plans were not received in time for a review or recommendation from Staff. This will probably come to the Commission at their July meeting.*

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 the underground trench/pond system must be approved by the Commission and the City and recorded with the title. On February 5, 2019 Derek Asche contacted the owner requesting a copy of the recorded maintenance agreement. No update was available on July 2, 2019. *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

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

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

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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 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

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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.

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 Staff

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indicates enclosure

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.

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.

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.

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.

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: June 1, 2022

TO: Elm Creek Watershed Management Commission (ECWMC)

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

RE: June ECWMC Updates

Project / Program Updates

Jubert Lake Agricultural BMPs

Landowner has signed contract for Phase 1A projects. Hennepin County staff are currently coordinating with landowner to address erosion and destabilization surrounding recently completed waterway. Hennepin County staff are also working with the landowner to coordinate potential WASCOB that will be moved from the adjoining property and the connection with a wetland restoration in Phase 1B. Work on 1A projects will be completed in Fall 2022.

13861 129th Ave N., Dayton

Landowner has completed concrete pad, and footings. Currently awaiting amended plans from Houston Engineering for the 20' x 20' manure bunker with roof structure. Once those are approved and received by Hennepin County, they will be sent to the landowner to be utilized for final construction.

22835 County Road 10, Corcoran

State cost share contract was executed. Landowner has started construction on livestock exclusionary fencing. This will keep up to 20 head of cattle out of a wetland and stream areas on the property. Inspection of the fence will be performed when the fence has been completed.

9945 Sundance Road

Landowner decided to construct fence on their own. However, in addition to gutters, and pasture waterers for livestock, landowner is interested in adding a manure bunker to the property. Plans for the 20' x 20' bunker will be forwarded to landowner when approved and received by Hennepin County. Project is still in need of technical signature. Construction for this project is expected to begin in late Spring or early Summer 2022.

9310 Bechtold Road

Drainage area and localized flow of water were delineated. Houston Engineering requested a list of data to be collected on-site. Hennepin County is currently engaged in field work to collect elevation, tile outlet locations, as well as take pictures of current conditions.

Hennepin County Environment and Energy Programming

Building reuse grant funding available

When it's time to remodel or demolish a building, many materials have the potential to be reused or recycled. In fact, about 85% of the materials in a typical demolition project could be salvaged for reuse and kept out of the landfills through practices like deconstruction and structural moves.

In addition, incorporating used building materials into remodeling projects helps “close the loop” by giving materials new life and avoids the impacts of new materials.



Types of grants available

Hennepin County has funding available for the following projects that reuse and recycle building materials:

- **Residential deconstruction grants:** Funding for residential properties built prior to 1970 to deconstruct building materials and salvage them for reuse. See the [residential deconstruction flyer \(PDF\)](#) for more information.
- **Commercial deconstruction grants:** Funding for commercial properties, including multifamily apartment buildings over four units, to deconstruct building materials for reuse. See the [commercial deconstruction flyer \(PDF\)](#) for more information.
- **Structural move grants:** Funding to physically relocate a building to another location, avoiding demolition waste and preserving the cultural and historical integrity of the building. See the [structural move flyer \(PDF\)](#) for more information.
- **Used building material installation grants:** A new grant to “close the loop” by funding remodeling, renovation, and new construction projects that incorporate used building materials into project designs. See the [used building material installation flyer \(PDF\)](#) for more information.

Apply for a building reuse grant

Applicants must be a property owner or developer in Hennepin County to apply for grants. Projects must meet the reuse and disposal criteria.

See [building reuse grants eligibility](#) for more details on project eligibility and to complete an application.

For more information, contact Olivia Cashman at olivia.cashman@hennepin.us.

Fix-it Clinics are returning this summer

Get free help with your broken stuff and learn valuable repair skills

[Fix-It Clinics](#) offer free, guided assistance from volunteers with repair skills to disassemble, troubleshoot, and (hopefully) fix small household appliances, clothing, electronics, mobile devices and more.

Fix-It Clinics teach valuable troubleshooting and basic repair skills, build community connections and reduce the number of repairable items that are thrown in the trash.



Attend a Fix-It Clinic

Clinics are held on the second Saturday of every month from noon to 4 p.m., with the last items accepted at 3:30 p.m. Events are first come, first served. No pre-registration required.

Items must be carry-in-sized. Bring any parts and supplies that might be helpful. The events are family friendly!

Upcoming Fix-it Clinics are scheduled for:

- Saturday, June 11 at the Brookdale Library, 6125 Shingle Creek Parkway, Brooklyn Center
- Saturday, July 9 at Gethsemane Lutheran Church, 715 Minnetonka Mills Road, Hopkins
- Saturday, August 13 at Mount Olivet Lutheran Church, 5025 Knox Avenue South, Minneapolis

Learn more and see the full schedule of 2022 Fix-It Clinics at hennepin.us/fixitclinic.

To: Elm Creek WMO Commission/TAC

From: Diane Spector

Date: June 1, 2022

Subject: WBIF Convene Committee Meeting #3 Report

Recommended Commission Action	For information and discussion.
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The Watershed Based Implementation Funding (WBIF) committee met for its third convene meeting on May 23, 2022. At that meeting, the group continued reviewing priority actions for possible funding and has developed preliminary recommendations. This memo is to update you and solicit feedback so these can be finalized at what will likely be the fourth and final meeting next month.

Education and Outreach

We've discussed previously the ongoing work between WMWA and its partner watersheds and Hennepin County to define and fund an education and outreach coordinator. As you recall, the proposal is for a two-year limited duration Hennepin County position that would be dedicated half time to WMWA/funding partners activities and half time to more general County environmental education and outreach activities. The exact duties of this position are still being worked out, as are the details about an implementation budget that would be used to fund activities such as workshops, small grants for installing practices, supplies, etc.

Bassett Creek is still mulling over the proposal and has not yet voted to commit funds. It is anticipated it will take another month or two to fully flesh out and finalize the proposal. However, at this time all the parties believe it has advanced enough that it will likely proceed, and the convene group feels comfortable with an allocation of \$30,000 toward this priority. BWSR is willing to contract those funds directly with Hennepin County, which would minimize the time and resources necessary to prepare the workplan and administer the grant. The County financial contribution would meet the 10% minimum match requirement.

SWA Implementation

Hennepin County staff have worked with the Commission to implement BMPs identified in the Rush Creek Headwaters Subwatershed Assessment (SWA) and other related agricultural and rural BMPs funded in part by a Clean Water Fund grant. The County proposed two priority areas for additional SWA implementation: 1) Phase 2 of the Rush Creek Headwaters SWA implementation, and 2) implementation in the Diamond Creek SWA drainage area. Staff believe they have the capacity to design and oversee implementation of about \$175,000 of BMPs by the end of 2025. The attached figures show the Rush Creek Headwaters SWA and Diamond Creek SWA areas.

Z:\Elm Creek\Grant Opportunities\2022-23 WBIF\M-WBIF convene meeting #3 update_June 1.docx

Additional Project Identification

The third priority area would be the completion of some combination of additional SWAs and stream assessments to identify both watershed BMPs and stream repair and stabilization needs. The convene group expects to allocate the balance of the WBIF funding, which considering the other priorities would be \$92,774, to this priority. Corcoran is interested in pursuing the South Fork Rush Creek SWA shown on the attached figure, and Dayton is interested in considering further study of the feasibility of re-meandering a portion of Diamond Creek (see attached) as identified in the Diamond Creek SWA.

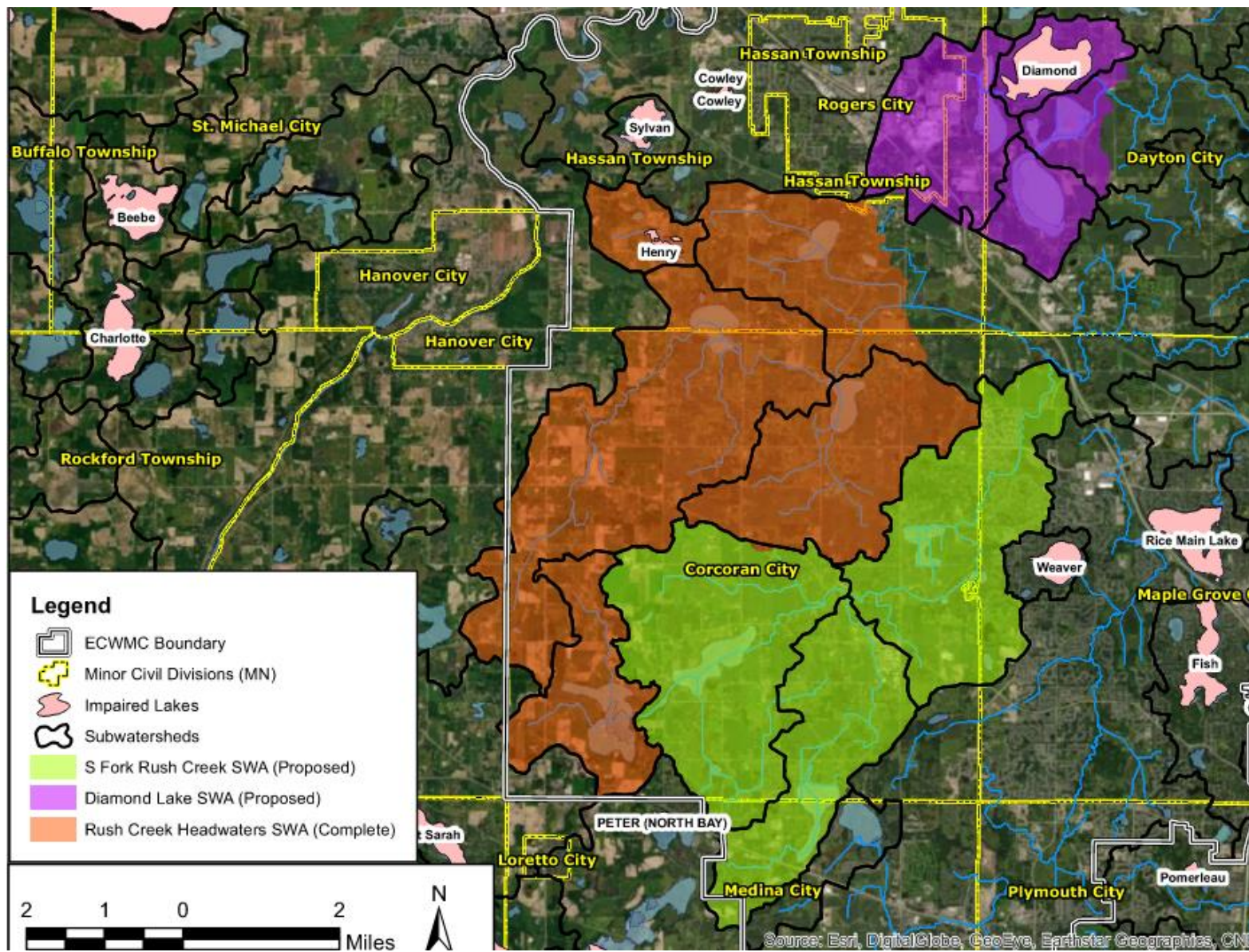
Process

BWSR has developed the suggested convene meeting process set forth below, showing the convene committees' progress and recommendations.

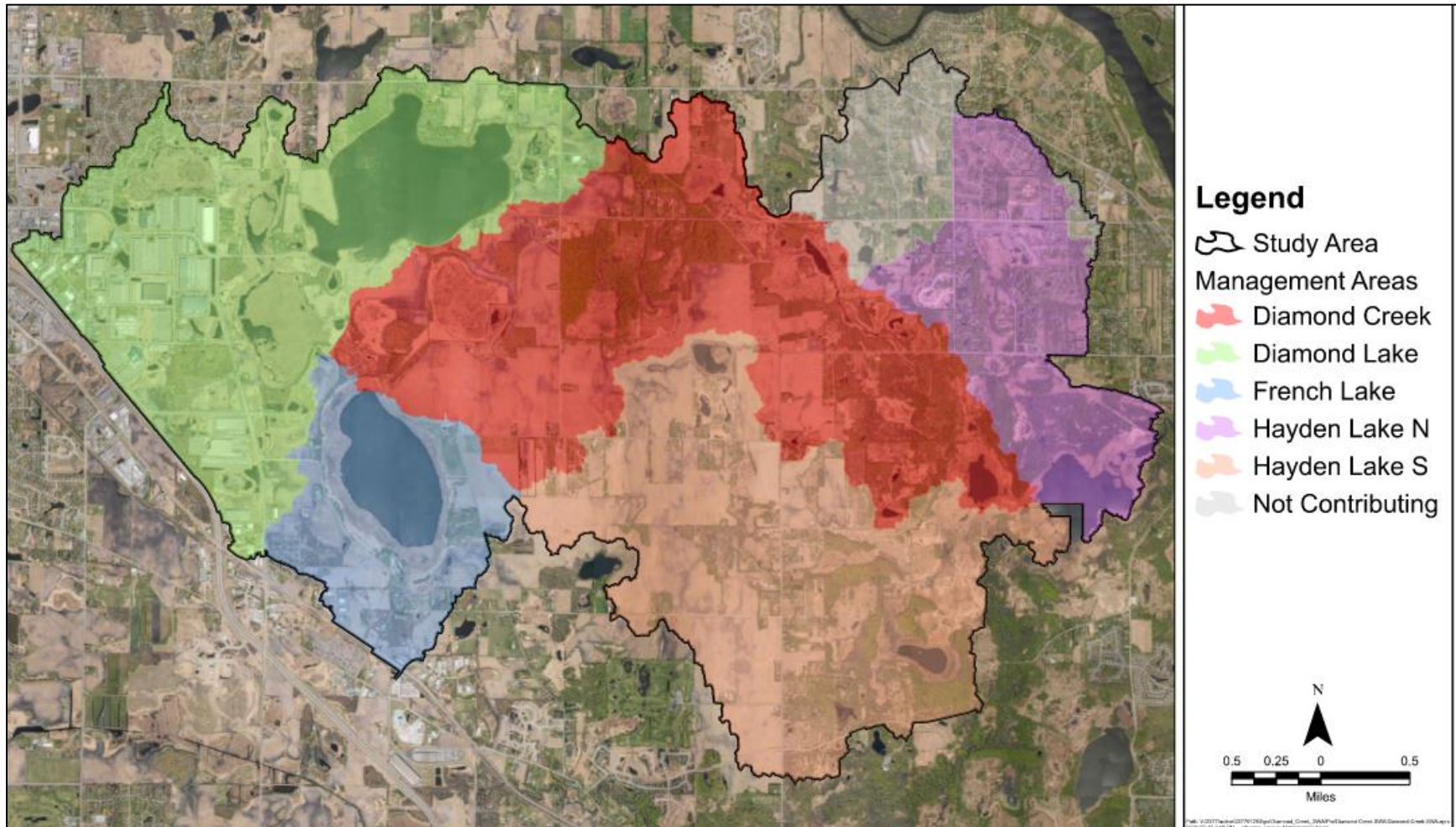
1. The amount allocated to the Elm Creek Watershed Area is **\$297,774**, which will become available July 1, 2022 and expire December 31, 2025. Funding must be focused on prioritized and targeted cost-effective actions with *measurable water quality results*.
2. The BWSR-Recommended Convene Meeting Process:
 - a) Choose a facilitator. **(Selected EC WMC)**
 - b) Choose a decision-making process. **(Selected consensus)**
 - c) Decide how to select activities for funding. **(Reviewed several categories of potential funding, including CIP, TMDL implementation, SWAs and Education and Outreach)**
 - d) Select the highest priority, targeted, measurable, and eligible activities to be submitted to BWSR as a budget request. **(Identified priority activities and allocations to be finalized)**
 - e) Confirm which entity will serve as grantee and/or fiscal agent for each selected activity and decide on the source of the 10% required match. **(To be finalized)**

Funding Priority	Amount WBIF	Source of 10% Match	Grantee
Education & outreach coordinator	\$30,000	WMWA budget for E & O, County \$ contribution	HCEE
County outreach/cost-share	175,000	County staff time and \$, landowner in-kind and \$, ECWMC CIP cost share	ECWMC or HCEE*
SWA/stream assessments	92,774	Capital budget for SWAs	ECWMC
TOTAL	\$297,774		

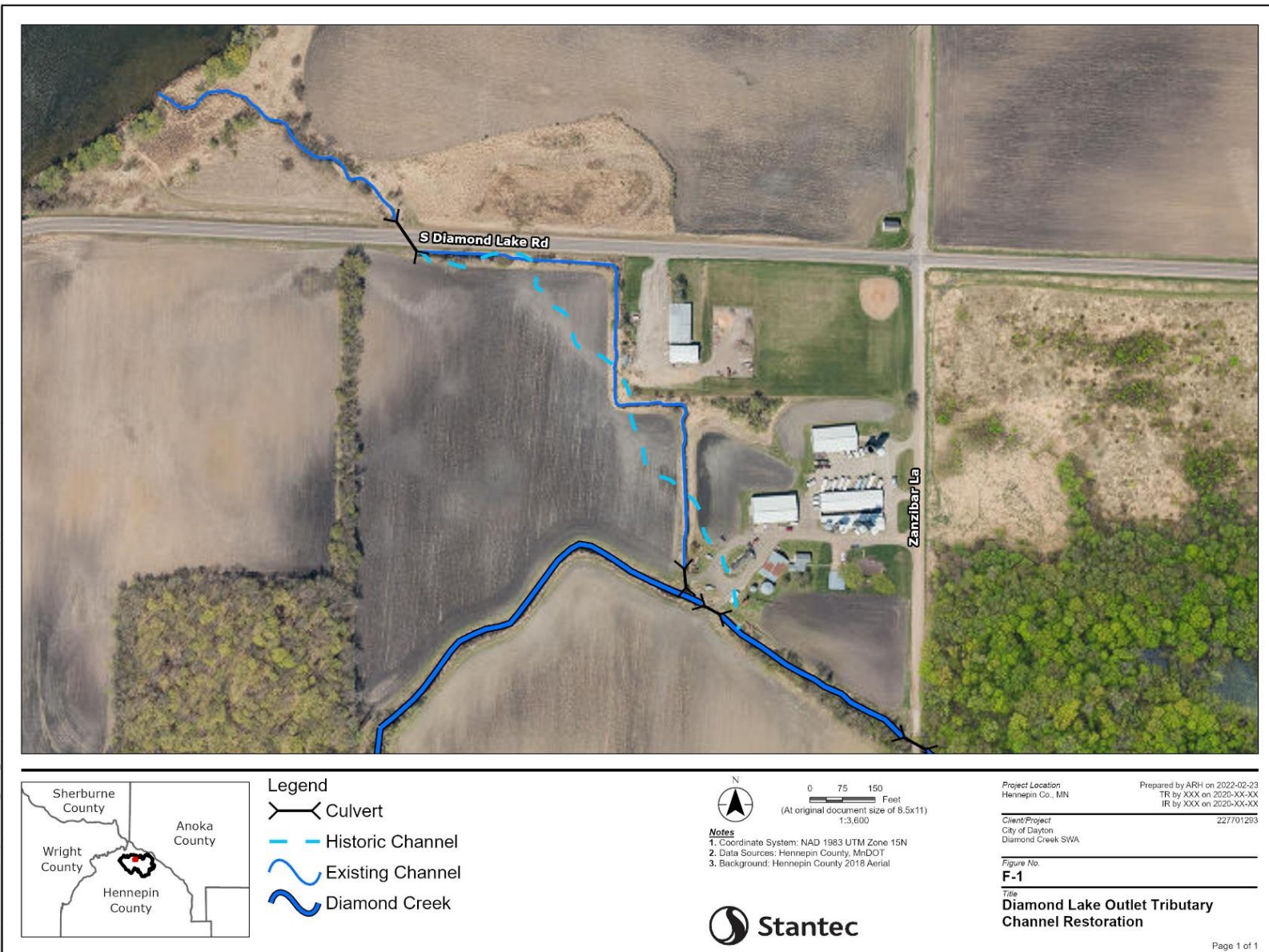
*Note that historically this has been administered through the Commission. The County would work with landowners to pay costs then invoice at the end of the year. The monthly staff report is an opportunity for the Commission and County to communicate and coordinate on priorities and progress.



Rush Creek Headwaters SWA – Completed (orange), S Fork Rush Creek SWA – Proposed (green)



Diamond Lake SWA - Completed



Conceptual Diamond Creek remeandering