

elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
FAX: 763.553.9326
Email: judie@jass.biz
www.elmcreekwatershed.org

TECHNICAL OFFICE
Hennepin County
Dept. of Environment & Energy
701 Fourth Ave S Suite 700
Minneapolis, MN 55415-1600
PH: 612.348-7338 • FAX: 612.348.8532
Email: James.Kujawa@hennepin.us

August 2, 2017

Representatives
Elm Creek Watershed Management Commission
Hennepin County, MN

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

Dear Representatives:

A regular meeting of the Elm Creek Watershed Management Commission will be held on **Wednesday, August 9, 2017, 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 Beverly at blove@jass.biz to confirm whether you or your Alternate will be attending the meeting.

Thank you.

Regards,



Judie A. Anderson
Administrator
JAA:tim

Encls: Meeting Packet

cc: Alternates
Joel Jamnik
TRPD

HCEE
Diane Spector
Clerks

BWSR
Met Council
Official Newspaper

MPCA
DNR

Z:\Elm Creek\Meetings\Meetings 2017\08 Notice_reg meeting.doc

elm creek

Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144 • FAX: 763.553.9326
Email: judie@jass.biz
www.elmcreekwatershed.org

TECHNICAL OFFICE
Hennepin County
Dept. of Environment and Energy
701 Fourth Ave S Suite 700
Minneapolis, MN 55415-1600
PH: 612.348-7338 • FAX: 612.348.8532
Email: James.Kujawa@hennepin.us

AGENDA August 9, 2017

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.*
 - 1) Funding Agreement.**
4. Action Items.
 - a. Project Reviews.*
5. Elm Creek Watershed-wide TMDL.
6. New Business.
7. Communications.
 - a. Freshwater Society – Partnership Opportunities.*
8. Watershed Management Plan.
 - a. Medina Local Plan.*
 - b. Public Hearing.*
9. Education.
10. Grant Opportunities and Updates.
 - a. Fish Lake Internal Phosphorus Loading Control.
 - b. Rush Creek Headwaters Subwatershed Assessment.
11. Project Reviews – *also see Staff Report*.*
12. Other Business.
13. Adjourn.

Z:\Elm Creek\Meetings\Meetings 2017\08 agenda.docx

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

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

Project Reviews. (See Staff Report. *)						
a.					2013-046	Woods of Medina, Medina.
b.					2014-015	Rogers Drive Extension, Rogers.
c.					2015-004	Kinghorn Outlet A, Rogers.
d.				AR	2015-006	Veit Building Expansion, Rogers.
e.				AR	2015-020	Strehler Estates, Corcoran.
f.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
g.					2016-002	The Markets at Rush Creek, Maple Grove.
h.					2016-004	Park Storage Place, Corcoran.
i.					2016-005W	Ravinia Wetland Bank Plan, Corcoran.
j.				AR	2016-014	Balsam Apartments, Dayton.
k.				AR	2016-018	Cambridge Park, Maple Grove.
l.				AR	2016-019	Just for Kix, Medina.
m.				AR	2016-021	Diamond View Estates, Dayton.
n.				AR	2016-022	AutoZone, Maple Grove.
o.				AR	2016-026	Faithbrook Church, Dayton.
p.				AR	2016-038	AutoMotor Plex, Medina.
q.				AR	2016-039	The Fields at Meadow Ridge, formerly Sands Parcel, Plymouth.
r.					2016-040	Kinghorn 4th Addition, Rogers.
s.					2016-047	Hy-Vee Maple Grove #1 (Hy-Vee Maple Grove North).
t.				AR	2016-052	The Woods at Rush Creek, Maple Grove.
u.					2017-002	RDO Site Plan, Dayton.
v.		E			2017-004W	Cartway Trail, Champlin.
w.					2017-008	TH 169 Reconstruction, Champlin.
x.			R		2017-010W	Nichols Property Wetland Delineation, Corcoran.
y.			R		2017-012	Minnesota Solar CSG19, Corcoran.
z.					2017-013W	20417 Larkin Road, Corcoran Wetland Violations, Corcoran.
aa.				AR	2017-014	Laurel Creek, Rogers.
ab.					2017-016	Territorial Woods, Maple Grove.
ac.				AR	2017-017	Mary Queen of Peace Catholic Church, Rogers.
ad.					2017-019	Medina Senior Living Community, Medina.
af.					2017-020	Northwest Greenway Trail Phase III, Plymouth.
ag.				AR	2017-021	Hindu Society of MN Staff Housing, Maple Grove.
ah.					2017-022	CSAH 81 and CSAH101 & 13 Intersection Improvements, Rogers
ai.					2017-023	Midwest Steel Supply, Rogers.
aj.					2017-024	Lil Explorers Daycare, Rogers
ak.					2017-025	Grading by Ground Storage, Rogers.
al.		E	R		2017-026W	Gmach Wetland Delineation, Corcoran.
am.					2017-027W	Mill Pond Restoration, Champlin.
an.		E			2017-028W	Fehn Meadows Wetland Bank, Corcoran.
ao.	A	E			2017-029	Brayburn Trails, Dayton.
ap.					2017-030	Brindle Path, Medina.
aq.					2017-031	Bass Lake Crossing, Corcoran.
ar.					2017-032W	Rachel Development Wetland Delineation, Corcoran.
as.		E			2017-033W	Jeff Schalo Ditch Management, Corcoran.

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

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

elm creek

Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144 • FAX: 763.553.9326
Email: judie@jass.biz
www.elmcreekwatershed.org

TECHNICAL OFFICE
Hennepin County
Dept. of Environment and Energy
701 Fourth Ave S Suite 700
Minneapolis, MN 55415-1600
PH: 612.348-7338 • FAX: 612.348.8532
Email: James.Kujawa@hennepin.us

Technical Advisory Committee and Regular Meeting Minutes July 12, 2017

I. A meeting of the **Technical Advisory Committee (TAC)** for the Elm Creek Watershed Management Commission was convened at 10:05 a.m., Wednesday, July 12, 2017, in the Mayor's Conference Room, Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN.

In attendance were: Todd Tuominen, Champlin; Meaghan Watson, Wenck Associates, Corcoran; Rick Lestina and Mark Lahtinen, Maple Grove; Kaci Fisher, Hakanson-Anderson, Medina; Ben Scharenbroich, Plymouth; Andrew Simmons, Rogers; James Kujawa and Jason Swenson, Hennepin County Dept. of Environment and Energy (HCEE); Brian Vlach, Three Rivers Park District (TRPD); Jeff Weiss, Barr Engineering; and Judie Anderson, JASS.

Not represented: Dayton.

Also present: Doug Baines, Dayton; Elizabeth Weir, Medina.

A. Motion by Scharenbroich, second by Lestina to approve the **meeting agenda**.* *Motion carried unanimously.*

B. Motion by Lestina, second by Scharenbroich to approve the **minutes of the April 12, 2017 TAC meeting**.* *Motion carried unanimously.*

II. Old Business.

Proposed revisions to Rule D. Stormwater Management.* The members reviewed Staff's proposed revisions to Rule D. Following discussion of a number of issues, it was agreed that a meeting that includes the individuals who are actually responsible for the maintenance of the proposed facilities, structures and systems would be the most effective next step. That meeting will be scheduled for later in the year.

III. New Business.

A. Commission's future role as Local Government Unit (LGU) for the Wetland Conservation Act (WCA).

The 1991 Wetland Conservation Act requires that each governmental unit within the seven county metropolitan area indicate its willingness to serve as the LGU under the permanent rules of the Act or to designate the water management organization in which it resides to administer the rules on its behalf. In 1993 the Commission adopted Resolution 93-1208 whereby it agreed to serve as the LGU if so requested by the member city/town. Also in 1993, both Champlin and Corcoran adopted resolutions designating the Elm Creek watershed Management Commission as the LGU to oversee wetland alterations within the watershed boundaries within their cities under the permanent rules established by BWSR to administer the WCA. To date, a substantial amount of time is spent by the Commission's technical staff in this role, of which most has been funded by the general operating budget of the Commission.

Tuominen stated that Champlin would not have a problem assuming the role of LGU for the WCA. Watson indicated she would need to bring this subject to the attention of Corcoran's city staff and was unsure of their response.

Motion by Scharenbroich, second by Tuominen to recommend to the Commission that it discontinue its role as LGU for the WCA or to invoice the cities who elect to have the Commission continue to act as their LGU for all the WCA-related time spent in that role. *Motion carried unanimously.* Kujawa will contact Champlin and Corcoran prior to bringing the recommendation forward to the Commission.

B. Call for 2017 CIPs. The members considered the following projects for funding in 2018.**1. Project 2017-01**

2012 CIP-23

Fox Creek Streambank Stabilization Project Phase 3*

Location:

I-94/Hyacinth Drive, Rogers

Project Description:

Correct stream bank erosion along 3,000 feet of stream bank

Proposed Levy:

~~\$90,000~~ \$112,500

Motion by Scharenbroich, second by Simmons to recommend to the Commission certifying for payment by Hennepin County in 2018 of the Commission's share of the cost of this project, as noted in the CIP, in the amount of \$90,000. *Motion carried unanimously.*

Motion by Simmons, second by Tuominen to recommend to the Commission certifying for payment by Hennepin County in 2018 of the Commission's share of the cost of this project, as noted in the updated Exhibit A from the City, in the amount of \$112,500. *Motion carried unanimously.* Since this amount does not exceed the 125% cost-increase policy of the Commission, no Plan Amendment is required for this adjustment.

2. Project 2017-02

CIP-2016-MG-02:

Main Stem Rush Creek stream restoration, Phase 2*

Location:

East of I-94, west of Fernbrook Lane, Maple Grove.

Project Description:

Stabilize and restore 11,000 feet of stream bank

Proposed Levy:

\$75,000

The City of Maple Grove requested that this project be moved to 2018.

3. Project 2017-03

Mill Pond Fishery and Habitat Restoration

Location:

Mill Pond, Champlin

Project Description:

Remove bed load in Mill Pond, improve depth and winter fish habitat, restore natural stream and lake biota. Improve recreational opportunities.

Proposed Levy:

\$250,000

Design work for this project will occur in 2017, with the shoreline restoration being completed in late 2018. Motion by Lestina, second by Scharenbroich to recommend to the Commission certifying for payment by Hennepin County in 2018 of the Commission's share of the cost of this project, in the amount of \$250,000. *Motion carried unanimously.*

4. Project 2017-04

Rain Garden at Independence Avenue

Location:

Independence Avenue, Trussel Avenue, Reynolds Park, Champlin.

Project Description:

Construct infiltration Pond–Rain Garden to treat stormwater from approximately 9 acres, reducing TSS and PH from existing surfaces before discharging into Elm Creek. The abstraction of pollutants is important to the proposed Mill Pond Aquatic Restoration project.

Proposed Levy:

\$75,000

This project will be completed in two phases. Phase One will be completed in 2017, Phase Two in 2018. Motion by Kujawa, second by Lestina to recommend to the Commission certifying for payment by Hennepin County in 2018 of the Commission's share of the cost of this project, in the amount of \$75,000. *Motion carried unanimously.*

The total cost of these three projects recommended for certification to the County is \$437,500.

C. Included in the meeting packet was a memo from Hennepin County advising the Commission that the **plan amendment** submitted by the Commission, including a revised capital improvement program, was approved by the County and that the **2018 maximum levy** for the Commission is set at \$490,000.

IV. Other Business.

A. The next TAC meeting will not be scheduled at this time.

B. The meeting of the Technical Advisory Committee was adjourned at 11:40 a.m.

V. A regular meeting of the Elm Creek Watershed Management Commission was called to order at 11:43 a.m., Wednesday, July 12, 2017, in the Mayor's Conference Room, Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN, by Chairman Doug Baines.

Present were: Bill Walraven, Champlin; Doug Baines, Dayton; Joe Trainor, Maple Grove; Elizabeth Weir, Medina; Lisa Vertelney, Plymouth; Kevin Jullie, Rogers; James Kujawa and Jason Swenson, Hennepin County Dept. of Environment and Energy (HCEE); Brian Vlach, Three Rivers Park District (TRPD); Jeff Weiss, Barr Engineering; and Judie Anderson, JASS.

Not represented: Corcoran.

Also present: Todd Tuominen, Champlin; Brad Martens, Corcoran; Mark Lahtinen, Maple Grove; Ben Scharenbroich, Plymouth; Andrew Simmons, Rogers; Jason Spiegel, DNR; Dave Haas, FLARA; and Bill Alms, WSB, for Project 2017-022.

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

B. Motion by Walraven, second by Jullie to approve the **minutes*** of the June 14, 2017 regular meeting. *Motion carried unanimously.*

C. Motion by Walraven, second by Jullie to approve the July **Treasurer's Report and Claims*** totaling \$15,584.22. *Motion carried unanimously.*

VI. Open Forum.

No one wished to speak on matters not on the agenda.

VII. Action Items.

A. Project Review.

2017-022 CSAH 81/101/13 Intersection Reconstruction, Rogers. This project proposes to reconstruct the CSAH 81 and CSAH 101&13 intersection by adding driving and turning lanes to improve traffic flow and safety. The project will increase the impervious area at the intersection from 7.1 acres to 9.5 acres. The site is at the top of a hill and drains in seven different directions. The majority of the project drains to the east towards French Lake while some portion drains to the I-94 corridor and eventually to Rush Creek. The project will include two new detention ponds to provide rate control and water quality improvements. One pond will be constructed with the project and the second will be constructed within approximately 12 months in conjunction with an adjacent project for the extension of Justen Circle. The ponds will be maintained by Hennepin County.

Motion by Trainor, second by Weir to approve this project conditioned on the following: 1) review and administrative approval of model revisions more accurately depicting the project immediately after construction; 2) review and approval of the model results and design of the planned pond to be constructed to the south in association with the Justen Circle extension project; and 3) receipt of a full set of signed plan sheets. *Motion carried unanimously.*

B. Haas presented an application for a Commission **Water Quality Education Grant** entitled "Adopt-A-Drain Communications and Data Management" (AAD). The request is being made by the Fish Lake Residents Association (FLARA) and is in the amount \$1,000. The AAD project is an integral part of the association's effort to reduce further nutrient loading into Fish Lake and is intended to contribute to the success and long-term effectiveness of the alum treatment for which the Commission and its partners received a Clean Water Fund Grant from the Board of Water and Soil Resources (BWSR). The project is intended to improve the watershed awareness of the Fish Lake watershed residents as well as help FLARA measure actual debris removal from the adopted drains. FLARA will work in partnership with Hamline University on the communications and data management portions of the project. They have also received a commitment of cooperative funding from the City of Maple Grove, the Maple Grove Lions Club, and others. The proposed cost from Hamline is \$18,000.

Motion by Vertelney, second by Walraven to approve this grant request in the amount of \$1,000. Motion carried unanimously.

VIII. Watershed Management Plan.

A. Report from the Technical Advisory Committee. (See Minutes, above.) The TAC will convene on a future date to continue discussion of revisions to Rule D. Stormwater Management.

B. The Commission has been notified that Hennepin County has approved the **Minor Plan Amendment** approved by the Commission at its May 10, 2017 meeting. .

C. At its meeting held prior to this meeting, the TAC recommended approval of the following projects for funding in 2018 of the Commission's share of the project costs through the Hennepin County ad valorem levy process:

1.	Project 2017-01	Fox Creek Streambank Stabilization Project Phase 3, Rogers*	\$112,500
2.	Project 2017-03	Mill Pond Fishery and Habitat Restoration, Champlin*	\$250,000
3.	Project 2017-04	Rain Garden at Independence Avenue, Champlin*	<u>\$ 75,000</u>
			\$437,500

4. Project 2017-02 Main Stem Rush Creek Stream Restoration Phase 2* was moved to 2018 and will not be certified this year.

Motion by Weir, second by Walraven to approve Projects 2017-01, 2017-03, and 2017-04 for consideration for ad valorem funding. *Motion carried unanimously.*

Motion by Jullie, second by Weir to call for a public hearing during the Commission's regular meeting, September 13, 2017. *Motion carried unanimously.* At the public hearing the Commission intends to proceed under the authority granted by MN Statutes, Sec. 103B.251 to certify its share of the project costs to Hennepin County for payment by a tax levy on all taxable property located within the Elm Creek watershed.

IX. Elm Creek Watershedwide TMDL. Approval of the TMDL by the Environmental Protection Agency occurred on June 26, 2017. A copy of EPA's Decision Document* was included in the meeting packet.

X. Grant Opportunities and Updates.

A. Internal Phosphorus Loading Control in Fish Lake project.

1. **Project Assurance.** The project assurance agreement was approved at the last Elm Creek Commission meeting and has been signed by the Commission and BWSR.

2. **Alum Treatment.** The request for bids was advertised on July 6 and bids will close on July 27. The sealed bids will be opened on that same day. The Three Rivers Park District Board of Commissioners will meet on August 24 to consider and accept a bid.

3. The treatment will occur sometime between late September and late October and will be about a week in duration. FLARA will be notified when the date has been scheduled for the treatment. Current plans are to temporarily close the access for that week time period, but to allow access for emergency situations.

4. When the time period of the treatment gets closer, a meeting with home owners on the lake and/or a separate meeting of the Board may be scheduled.

B. Rush Creek Headwaters Subwatershed Assessment project. No update.

XI. Education.

The next **WMWA meeting** is scheduled for 8:30 a.m., Tuesday, August 8, 2017, at Plymouth City Hall. Commissioners are encouraged to attend.

XII. New Business.

Jason Spiegel introduced himself to the Commissioners. He has assumed the position of DNR Area Hydrologist for Anoka and Hennepin Counties formerly held by Kate Drewry. He will be the contact for permits and other regulatory matters relating to work in Public Waters, as well as shoreland and floodplain ordinance administration and other miscellaneous water-related issues.

XIII. Communications.

XIV. Other Business.

A. The following **projects** are discussed in the July Staff Report.* ("W" denotes wetland project.)

1. 2013-046 Woods of Medina, Medina.
2. 2014-015 Rogers Drive Extension, Rogers.
3. 2015-004 Kinghorn Outlet A, Rogers.
4. 2015-006 Veit Building and Parking Lot Addition, Rogers.
5. 2015-013 Wayzata High School, Plymouth.
6. 2015-020 Strehler Estates, Corcoran.
7. 2015-030 Kiddiegarten Child Care Center, Maple Grove.
8. 2016-002 The Markets at Rush Creek, Maple Grove.
9. 2016-004 Park Place Storage Site Plans, Corcoran.
10. 2016-005W Ravinia Wetland Bank, Corcoran.
11. 2016-014 Balsam Apartments, Dayton.
12. 2016-018 Cambridge Park, Maple Grove.
13. 2016-019 Just for Kix, Medina.
14. 2016-021 Diamond View Estates, Dayton.
15. 2016-022 AutoZone, Maple Grove.
16. 2016-026 Faithbrook Church, Dayton.
17. 2016-038 AutoMotorPlex, Medina.
18. 2016-039 Fields at Meadow Ridge, Plymouth.
19. 2016-040 Kinghorn 4th Addition, Rogers.
20. 2016-047 Hy-Vee Maple Grove #1, Maple Grove.
21. 2016-052 The Woods at Rush Creek, Maple Grove.*
22. 2017-002 RDO Site Plan, Dayton.*
23. 2017-004W Cartway Trail, Champlin.
24. 2017-008 TH169 Reconstruction, Champlin.
25. 2017-009 Maple Grove Senior HS Tennis Court Rehabilitation, Maple Grove.
26. 2017-010W Nichols Property, Wetland Delineation, Corcoran.
27. 2017-012 Minnesota Solar CSG19 (Highway 55), Corcoran.*
28. 2017-013W 20417 Larkin Road, Corcoran.
29. 2017-014 Laurel Creek, Rogers.*
30. 2017-016 Territorial Woods, Maple Grove*
31. 2017-017 Mary Queen of Peace Catholic Church, Rogers
32. 2017-018W CR50 Solar Gardens, Corcoran.*
33. 2017-019 Medina Senior Living Community, Medina.*
34. 2017-020 Northwest Greenway Trail Phase III, Plymouth.
35. 2017-021 Hindu Society of MN Staff Housing, Maple Grove.
36. 2018-022 CSAH81 and CSAH101 and 13 Intersection Improvements, Rogers.
37. 2017-023 Midwest Steel Supply, Rogers.
38. 2017-024 Lil Explorers Daycare, Rogers.*
39. 2017-025 Grading by Ground Storage, Rogers.*
40. 2017-026W Gmach Wetland Delineation, Corcoran.
41. 2017-027W Mill Pond Restoration, Champlin.
42. 2017-028W Fehn Meadows Wetland Bank, Corcoran.

B. Adjournment. There being no further business, motion by Walraven, second by Baines to adjourn.
Motion carried unanimously. The meeting was adjourned at 12:53 p.m.

Respectfully submitted,



Judie A. Anderson
Recording Secretary
JAA:tim

Z:\Elm Creek\Meetings\Meetings 2017\07 Reg and TAC Meeting Minutes.docx

USGS Streamgage at Elm Creek near Champlin; update on activities

- Current 2017 joint funding agreement
- USGS budget uncertainty for 2018: Early 2018 funding agreement?
- USGS organizational changes
 - Water Science Centers of Minnesota, Wisconsin, Michigan merged in July
- WY2016 Record
 - Water Year summary link
https://waterdata.usgs.gov/nwis/rpt?dv=ts&ids=73213&wys=water_yr=2016&site_no=05287890&agency_cd=USGS&adr_water_years=2006%2C2007%2C2008%2C2009%2C2010%2C2011%2C2012%2C2013%2C2014%2C2015%2C2016&referred_module=
 - Peak of Record
https://nwis.waterdata.usgs.gov/mn/nwis/peak/?site_no=05287890&agency_cd=USGS
 2016-09-24, 1220 cfs, 10.25 ft. Annual Exceedance Probability of 0.01-0.02 (50-100-yr event;
<https://pubs.usgs.gov/sir/2013/5110/>)
 - Waterwatch
 - 2016 flow-duration hydrograph
<https://waterwatch.usgs.gov/index.php?sno=05287890&yr=2016&nyr=1&dt=dv01d&si=0&go=GO&xps=line&ytp=yv&ofmt=plot&id=sitedur&ct=sitedur>
 - Seasonal-record setting flows Sept 2016, Nov 2015, Dec 2016
<https://waterwatch.usgs.gov/index.php?sno=05287890&yr=2017&nyr=3&dt=dv01d&si=0&go=GO&xps=line&ytp=yv&ofmt=plot&id=sitedur&ct=sitedur>
 - Cumulative hydrograph almost tied record for Calendar Year 2016
https://waterwatch.usgs.gov/index.php?sno=05287890&yr=2016&ytp=yv&xlgd=1&go=GO&ofmt=plot&atp=log&cfu=mcf&id=wwdur_cumflow&ct=wwdur_cumflow&ljd=1
 Cumulative hydrographs last 3 years have been wetter in winter, dryer in early spring
 WY2016
https://waterwatch.usgs.gov/index.php?sno=05287890&yr=2016&ytp=wy&xlgd=1&go=GO&ofmt=plot&atp=log&cfu=mcf&id=wwdur_cumflow&ct=wwdur_cumflow&ljd=1
 WY2017
https://waterwatch.usgs.gov/index.php?sno=05287890&yr=2017&ytp=wy&xlgd=1&go=GO&ofmt=plot&atp=log&cfu=mcf&id=wwdur_cumflow&ct=wwdur_cumflow&ljd=1
 - Water Quality during Peak of Record flows
 - Highest recorded Chemical Oxygen Demand
 - Lowest recorded Specific Conductance (highest occurred during winter 2013-14)
 - https://nwis.waterdata.usgs.gov/mn/nwis/qwdata/?site_no=05287890&agency_cd=USGS&inventory_output=0&rdb_inventory_output=file&TZoutput=0&pm_cd_compare=Greater%20than&radio_parm_cds=all_parm_cds&qw_attributes=0&format=rdb&qw_sample_wide=wide&rdb_qw_attributes=0&date_format=YYYY-MM-DD&rdb_compression=value&submitted_form=brief_list
 - WaterAlert for tracking flow: https://waterdata.usgs.gov/mn/nwis/uv/?site_no=05287890
- Status of gage
 - Recent “upgrades”
 - New logger with more powerful programming capabilities (more efficient)
 - Web cam https://waterdata.usgs.gov/mn/nwis/uv/?site_no=05287890
 - 2-way telemetry only (having issues; evaluating changes)
 - Pending bridge reconstruction, 2018?
 - Footprint of construction area? Temporary gage?
 - Schedule

elm creek

Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
FAX: 763.553.9326
email: judie@jass.biz
www.elmcreekwatershed.org

TECHNICAL OFFICE
Hennepin County
Environment and Energy Dept
701 Fourth Ave S Suite 700
Minneapolis, MN 55415-1600
PH: 612.596.1171 | FAX: 612.348.8532
email: Ali.Durgunoglu@hennepin.us

STAFF REPORT

August 2, 2017

2013-046 Woods of Medina, Medina. This is two parcels totaling 9.5 acres located east of CR 116 and south of Hackamore Road. The site is proposed to be developed into 16 single-family residential lots. On January 13, 2015, the Commission approved this project with two conditions. Although this project has not been constructed, it is still active with the City of Medina and remains approved by the Commission until it becomes inactive with the City.

2014-015 Rogers Drive Extension, Rogers. This project involves improvements along Rogers Drive from Vevea Lane to Brockton Lane. The project is located east of I-94, south of the Cabela development. The total project area is 8.0 acres; proposed impervious surfaces total 5.6 acres. Site plans received July 1, 2014 meet the requirements of the Commission with the exception of the nutrient control. Due to limited options to treat the nutrient loads on the east 1.7 acre portion of Rogers Drive, 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.

2015-004 Kinghorn Outlot A, Rogers. This is a 31 acre site located between the Clam and Fed Ex sites in Rogers on the west side of Brockton Road and I-94. The proposed site will have two warehouse buildings, 275,000 and 26,000 SF in size, with associated parking and loading facilities. The Commission standards require review of stormwater management, grading and erosion controls and buffers. In June 2015 the Commission approved this project with three conditions. Numerous revised plans have been received for Staff review. This project was extended by the City of Rogers earlier this year. It will remain active on the Staff Report.

2016-002 The Markets at Rush Creek, Maple Grove. This is a proposal to develop 40 acres of a 123-acre planned unit development located in the southwest quadrant of the intersection of CSAH 101 and CSAH 10. County Ditch 16 (Maple Creek) runs along the south property line on this project. The 40-acre project area includes a Hy-Vee grocery store (16.8 acres), a Hy-Vee gas station (2.5 acres) and 11 outlots (18.76 acres). Right-of-way accounts for 2.3 acres. The remaining acreage (83 acres) consists of 5 outlots and right-of-way. The additional outlot areas are not part of the stormwater review for this project but will be reviewed for compliance with the Commission's buffer and floodplain requirements. At their May 2016 meeting, the Commission granted Staff authority to administratively approve the project and report any updates. This project has been placed on hold by Hy-Vee. As long as it remains active with the City, the Commission's approval with conditions remains in place. *A temporary pipe to drain down excess water on the west side of CSAH 101 will be installed by the City of Maple Grove through this site. The permanent pipe was installed under CSAH 101 at the time the road was constructed in 2007, but it was bulk headed on both ends of the ROW. This is being completed because a new development in the northwest corner of this intersection is being considered by the City.*

2016-004 Park Place Storage Site Plans, Corcoran. The applicant is proposing to develop a 22-acre site in the southwest portion of the city into a multi-unit storage facility with associated access roads, utilities, and stormwater features. This will be an addition to the existing storage facility located west of the proposed project. New wetland permit revisions were approved by the Commission at their July 2016 meeting. New site plan information was received and approved by the Commission in October 2016. All approval contingencies have been met with the exception of the BWSR certification

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

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

Italics indicates new information

indicates enclosure

of wetland banking withdrawals for 0.24 acres from bank account #1560. The Commission has a wetland replacement escrow in case this does not occur.

2016-005W Ravinia Wetland Replacement Plan, Corcoran. In February 2016, Lennar Corporation submitted a Wetland Banking Concept Plan for Phase II of the Ravinia Development. This plan was withdrawn in favor of an onsite wetland replacement plan. At their December 2016 meeting the Commission approved Staff's findings and recommendations dated January 10, 2017. Final wetland impacts will be 1.22 acres. Wetland credits created on site will be 4.01 acres. *Excess credits of 0.11 acres are proposed to be used on Lennar's Laurel Creek development in Rogers (2017-014).* All contingency items that were part of Commission's approval have been met. Construction on the site began last spring. Staff is working with Karen Wold from Barr Engineering to provide monitoring to ensure the replacement meets the performance standards of the approved plans.

2016-040 Kinghorn 4th Addition, Rogers. This is a 13.7-acre parcel located in the northwest corner of the intersection of Brockton Lane and Rogers Drive. An industrial warehouse with 8.8 acres of new impervious area is proposed for the site. The plan includes the use of a NURP pond and a biofiltration basin to meet Commission requirements for rates, water quality and abstraction. The adjacent site is likely to be developed in the near future and some of the stormwater features were oversized to accommodate future development. In November 2016 the Commission approved the project with the following conditions: 1) approval of only this phase; future phases will need additional review and approval; 2) final modifications to the hydrologic modeling; 3) additional details are provided for a proposed water re-use system; 4) an O&M Plan for the pond and biofiltration basin is completed and recorded on the final plat; 5) modification of the storm sewer system to maximize the area draining to the NURP pond; and 6) receipt and review of wetland-related documentation if wetlands are present. Condition #1 required no action, so has been met. Condition #2 has been met for the current design; however, any future modifications to the design will require additional review. Conditions #3-6 remain outstanding and are expected to be addressed during final design.

2016-047 Hy-Vee North Maple Grove. The applicant is proposing to disturb 13 acres of a 20.4-acre site located at the northeast corner of Maple Grove Parkway and 99th Avenue for the purpose of constructing a grocery store, fuel station, convenience store and parking facilities. The applicant's engineer was present at the November meeting to request interpretation from the Commission on their 25' average and 10' minimum standard for a buffer when a retaining wall is used to minimize wetland impacts. The Commission felt there had to be some type of mitigating compensation for such a scenario. A revised plan was submitted on December 1, 2016. Staff sent preliminary review comments and requested revisions on December 14. In their findings dated January 10, 2017, Staff recommended approval of this project subject to 1) receipt, approval, and recordation of an Operations and Maintenance Plan for the pond and the iron-enhanced filtration system, 2) revisions for items relating to buffer requirements and erosion and sediment control as enumerated in the findings, and 3) receipt of a signed and dated final plan set. The Commission approved Staff's recommendations at their January 11, 2017 meeting with the additional requirement that the Commission receive and comment on a WCA impact notice. *No new information has been received to date.*

2017-002 RDO Dayton Site Plan. This is a commercial development proposal on a 25.6± acre plot located between I94 and Holly Lane. The project will develop the south 16 acres, to create about 7.6 acres of impervious cover. This project was approved with conditions by the Commission at their March 8, 2017 meeting. The City approved the PUD in May. *The applicant has decided not to begin construction until spring 2018 and requested an extension to December 31, 2017, for the project's approval conditions set by the Commission at their March meeting.*

2017-004 Cartway Trail Wetland Replacement Plan, Champlin Park and Recreation Dept. A complete application was received on June 8, 2017 and noticed per WCA requirements. Two issues come into play on this application. 1) sequencing of the wetland impacts and 2) *the location of the replacement wetlands outside of the Elm Creek Watershed and Hennepin County.* *The TEP met on-site July 6. Their findings are attached. The City reviewed the findings and agreed to relocate the trail to avoid some wetland impacts and comply with sequencing per WCA standards. An extension to October 9, 2017 was requested and granted for them to provide revised plans for Staff review.*

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

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

Italics indicates new information

indicates enclosure

2017-008 TH169 Reconstruction, Champlin. The stormwater review was done by the West Mississippi WMO because over three-fourths of the work will be done in that watershed. This Commission's review was for floodplain impacts and mitigation. No WCA jurisdictional wetlands will be impacted by this project. At their March 2017 meeting, the Commission approved the site plans contingent upon receipt of a final signed plan set.

2017-010W Nichols Property Wetland Delineation, Corcoran. This is a 5.2-acre site located at 6351 County Road 101. Three wetlands (0.56 acres total) were identified on the property. Public notice for comments was open until May 17, 2017. A site and office review indicates additional wetland areas and possibly some wetland filling on this site. On May 23, Staff requested that the applicant provide soil borings and an aerial photo review of the area in question. These verified the delineator's delineation line. Staff noticed approval of the wetland delineation. *This item will be removed from the report.*

2017-012 Minnesota Solar CSG19 (Highway 55) Corcoran. This project proposes to install 5 MW of solar capacity on 33 acres of cropland north of Highway 55 at the border of Corcoran and Greenfield. The north half of the solar array drains to Jubert Lake (headwater of Rush Creek), approximately 2 miles northeast of the site. The south half of the array drains to Lake Sarah approximately 2 miles south of the site. Although this site is within the legal boundary of the ECWMC, Lake Sarah is in the Pioneer-Sarah Creek Watershed. The Commission's review is for compliance to rules D;E, G and I. At their June 14, 2017 meeting, the Commission approved this project conditional upon; 1) Stormwater easements being provided over the filter basin and outlet and 2) An approved O & M agreement being recorded on the land title within 90 days after City approval. *Both items have been received. This item will be removed from the report.*

2017-013W 20417 Larkin Road, Corcoran. Staff was contacted by the DNR Conservation Officer about an unauthorized excavation in a Public Waters Inventory stream and ditching from the stream into a WCA wetland within the subject property. Staff and the DNR staff inspected the site on April 26, 2017, and confirmed the violation. The CO issued Resource Protection Notices for PWI and WCA violations to the property owner and the renter who performed the excavation. Staff also informed the city administrator. A Restoration Order was issued to the property owner by the DNR the first week of June. The deadline for submittal of a replacement plan, exemption or no-loss application is July 15, 2017, or the site must be restored per the RO by that date. *The landowner requested an extension to the deadline. It was granted to comply with the same deadline issued by the DNR for their RO, September 30, 2017. (hours for bill back between June 30 and July 19= 10.0)*

2017-016 Territorial Woods, Maple Grove. This is a 21 acre site located at 13763 and 14033 Territorial Road. The north property line is Territorial Road and the south line is CR 81. The Elm Creek Park Reserve is across Territorial Road from this project. The development is proposing to construct a 98-unit apartment building and 69 townhome units. Staff review is for compliance to the Commission's rules D, E and I. Findings dated May 23, 2017 offered no recommendation to the Commission because the applicant does not comply with the Commission's nutrient load standard, must provide long term filter basin O&M responsibility, and must submit additional fees of \$49. The initial review deadline was July 8. *The applicant has requested an extension of the July 8 deadline to September 10, 2017. No other information has been received to date.*

2017-019 Medina Senior Community, Medina. Preliminary information was received from the City and initial comments provided. A signed ECWMC application and project submittal from the City were received on June 2, 2017. Updated stormwater calculations and plans were submitted on June 20, 2017. The applicant proposes to construct a senior living facility and medical facility on a 10.8 acre parcel located between Mohawk Drive and Willow Drive, with access from Chippewa Road. The project proposes to disturb 6.0 acres and adds 3.7 acres of new impervious surfaces. Staff is reviewing the site for compliance with rules D, E, G, and I. An initial review was completed and sent to the applicant on July 5, 2017. *The applicant provided revised plans and update stormwater calculations on July 26, 2017. Significant issues related to wetland buffer requirements remain as pending on this project moving forward, and the applicant continues to meet with the City of Medina to resolve this and other layout issues. Staff is not making a recommendation at this time due to revisions required to meet the buffer and volume abstraction requirements.*

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

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

Italics indicates new information

indicates enclosure

2017-020 NW Greenway Trail Phase III, Plymouth. The City is proposing to construct Phase III of the Northwest Greenway Trail near Peony Lane N and Cheshire Parkway, approximately one-quarter mile south of County Road 47 in northwest Plymouth. The project consists of 1) a 2,200 foot connector trail between Kimberly Lane N and the Aspen Hollow subdivision, 2) a new 520-foot boardwalk over Elm Creek and its associated wetland/floodplain replacement, 3) a 100-foot boardwalk west of Cheshire Parkway and 4) approximately 620 linear feet of trail connections at the Cheshire Parkway trailhead adjacent to Camelot Park. The project will disturb 2.43 acres. The project is constructing 0.65 acres of new impervious surface area within the Elm Creek watershed. The new impervious surface area is a trail that ranges between eight and twelve feet wide, and has a 5-foot minimum vegetated buffer on both sides, and is, therefore, exempt from the Commission's Rule D. Staff review was for compliance to the Commission's Third Generation rules E, F and H. At their June 14, 2017 meeting, the Commission approved this project contingent upon: 1) the applicant obtaining a DNR protected waters crossing permit on Trail B and 2) LGU wetland replacement plan approval on impacts associated with the trail segments. *No new information has been received.*

2017-022 CSAH 81/101/13 Intersection Reconstruction, Rogers. An application was submitted by the City of Rogers for the reconstruction of the CSAH 81 and CSAH 101&13 intersection. The project will add driving and turning lanes to improve traffic flow and safety. The project will increase the impervious area at the intersection from 7.1 acres to 9.5 acres. At the July 12, 2017 meeting, the Commission approved the project with the following conditions: 1) review and administrative approval of the model revisions to more accurately depict the project immediately after construction; and 2) review and approval of the model results and design of a planned pond to be constructed to the south in association with the Justen Circle extension project. The engineer for the project has provided modeling for condition #1 and Staff is working with them to finalize administrative approval. The design for condition #2 is not yet complete.

2017-023 Midwest Steel, Rogers. This is two existing 3 acre lots in the Rogers Industrial Park located between Highway 101 and James Avenue just north of CSAH 144 (141st Avenue). The applicant is proposing to combine the lots and construct a 53,000 SF warehouse and its associated parking. Staff reviewed the project for compliance to Commission rules D and E. There is a regional stormwater pond on this parcel that was constructed to treat 69.5 acres of water from the surrounding industrial park. This regional system was approved by the Commission in 2004 as part of project 2004-042, Highway 101 corridor drainage improvement. At their June meeting the Commission approved Staff findings dated June 9, 2017, wherein Staff recommended approval with the following conditions: 1) the remainder of the fee (\$50) is submitted to the Commission; 2) incorporation of details for pre-treatment of the two storm sewer lines draining the parking lots; 3) revision of the pipe inlets into the infiltration pond to accommodate rapid infiltration; and 4) receipt of a signed and dated final plan set. *An extension to the 15.99 deadline was granted until August 28, 2017. No other new information has been received to date.*

2017-024 Lil Explorers Daycare, Rogers. This is an existing 1.2 acre lot in the WJD II Addition across from the Kohl's Department Store on S. Diamond Lake Road, just west of Highway 101. The applicant is proposing a 11,610 SF two-story daycare with its associated parking and play area facilities. A regional stormwater pond was constructed to handle this water in 2001. *Staff reviewed this project and found it in compliance with the regional stormwater management system installed in 2001 and 2003 and the Commission's Erosion and Sediment Control requirements. The site plans were approved by Staff pending receipt of an engineer's signed copy of the plan set.*

2017-025 Grading by Ground Storage, Rogers. This is a 13 acre lot owned by the City of Rogers. The lot is undeveloped except for an above-ground water reservoir located near the SW corner of the property. The city is proposing to eventually construct a tennis center on this property. Because the site is short of soil, and a construction site nearby has excess soil, the city would like to temporarily stockpile soil and rough grade the areas identified as phase I (two field areas in the southeast area of the lot) on the site plan dated June 2, 2017. The Commission will review this site for compliance to Rule E. E&SC plans meet the Commission's standards but Staff requested rate and volume control clarification on two natural infiltration areas that are proposed to be impacted by this and future grading. *New hydrology information has been received, but not reviewed as of this update. If available, Staff's review and decision will be provided to the Commission at their meeting.*

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

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

Italics indicates new information

indicates enclosure

2017-026W Gmach Wetland Delineation, Corcoran. This site is located at 22600 Oakdale Drive. The parcel is 37 acres in size, but only the southerly-most 5.6 acres are being evaluated for wetlands at this time. The 5.6 acre site was evaluated in the field for potential wetlands by Kjolhaug Environmental Services on April 27, 2017. An aerial review for offsite hydrology determination was done on one area located within the farmed portion of the property being examined. This was reviewed according to the BWSR (2010) protocol. No wetlands were identified on the property from the field or aerial reviews by the delineator. *Staff approved and noticed this delineation per WCA requirements. This item will be removed from the report.*

2017-027W Mill Pond Restoration, Champlin. This application proposes to restore the aquatic and riparian habitat of the Upper and Lower Mill Ponds (DNR Public Waters Basin No. 061P) to improve water quality, enhance shoreland and aquatic habitat, develop a sustainable fishery, and provide public access to the lake. No Wetland Conservation Act jurisdictional impacts are occurring from this project. The drawdown of Mill Pond will begin in September 2017 and construction will begin in December 2017 with completion by October 2018. The Commission will review this project for compliance to its wetland, floodplain, E&SC and buffer criteria. Project recommendations will be provided at the Commission meeting.

2017-028W Fehn Meadows Wetland Bank, Corcoran. The owner of this 63-acre parcel would like to pursue a potential wetland banking project during development. This site is located south of CR 117, between Trail Haven and Cain Roads. An initial wetland bank scoping document was provided to the Commission as LGU for the City of Corcoran. This will be reviewed with BWSR to determine if the site is a good candidate for the BWSR Wetland Banking Program. If BWSR and the LGU believe it is, the next phase of the process will be a Concept Banking Plan Application. The final phase, would be the final Wetland Banking Plan. A TEP was held on this site on July 6, 2017. *Findings were provided to the applicant and BWSR.*

2017-029 Brayburn Trails, Dayton This is two parcels, totaling 154 acres, located south of 117th Ave N and 1/3rd of a mile east of East French Lake Road. The Excelsior Group is proposing to develop the parcels into 256 units of single family homes. The review is for conformance with the Commission's rules D, E, F, G, and I. The project proposes impacts to floodplain storage with mitigation and wetland impacts. Staff has completed its review and will provide recommendations at the Commission Meeting.

2017-030 Brindle Path, Medina. This is a 40-acre site proposed for 68 single family lots. It is located just north of the Polaris Headquarters. The City requested preliminary comments from the Commission. Staff provided comments

2017-031 Bass Lake Crossing, Corcoran. This is two parcels, 48.5 total acres, located north of the intersection of CR 10 and Larkin Road. M/I Homes is proposing to develop the two parcels into 97 single-family residential homes. As proposed, the project will require 0.3303-acre of jurisdictional wetland fill within 5 separate wetland locations. The review will be for compliance with the Commission's rules D, G, and I. A notice for the wetland replacement plan was sent on August 1 requesting comments by August 31. This project will be reviewed at the September meeting.

2017-032 Rachel Development Wetland Delineation, Corcoran. This is two parcels with 40 total acres located west of the Lions Park on CR 10. Two wetlands were identified and delineated on this property. Staff will review in the field and office to determine if the boundaries are accurate per WCA and Elm Creek requirements.

2017-033 Jeff Schalo Wetland Exemption, Corcoran. Shalo is requesting to clean out an existing ditch to its original elevations (6'-1.0' cleanout) and install a non-perforated drain tile through some wetland areas. These items are eligible for a drainage maintenance exemption and a de minimis exemption (filling <1000 sq. ft.) Staff will issue an exemption certificate.

FINAL RECORDINGS ARE DUE ON THE FOLLOWING PROJECTS:

During the month of August Staff will request updates from the cities on these projects.

2015-006 Veit Building and Parking Lot Addition, Rogers. Approved on May 13, 2015, pending the SAFL-Baffle weir being covered by an easement and the appropriate operation and maintenance agreement being obtained and recorded with the property.

2015-020 Strehler Estates, Corcoran. Approved on January 10, 2015 contingent upon a conservation easement being recorded on the property title.

2015-030 Kiddiegarten Child Care Center, Maple Grove. This project was approved by the Commission at their December 9, 2015 meeting. If the City of Maple Grove 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.

2016-014 Balsam Apartments, Dayton. Approved April 13, 2016, pending recordation of an Operation and Maintenance agreement with an O&M plan.

2016-018 Cambridge Park, Maple Grove. Approved on July 13, 2016, subject to recorded preservation easements and pond maintenance provided by the City or through an approved operation and maintenance agreement recorded on the property title. Preliminary easements and operation and maintenance agreements for the ponds and preservation areas were received and approved by Commission Staff. Final proof of recording of the documents is still needed.

2016-019 Just for Kix, Medina. Approved June 8, 2016. Awaiting recordation of corrected O & M plan agreement for the bio-filtration basins.

2016-021 Diamond View Estates, Dayton. Approved June 8, 2016, contingent that, if the City of Dayton/homeowners are to maintain the ponds and the bio-filtration basin, an operation and maintenance plan agreement must be submitted for approval to the City and the Commission and recorded within 90 days of the final plat approval.

2016-022 AutoZone, Maple Grove. At their June 8, 2016 meeting, the Commission approved Staff's findings dated June 1, 2016, with the condition of recording an approved O & M Plan within 90 days of the final plat approval.

2016-026 Faithbrook Church, Dayton. Approved August 10, 2016, with the stipulation that an approved O&M plan be recorded with the property within 90 days following final plat approval.

2016-038 AutoMotorPlex, Medina. Approved on October 31, 2016, with conditions. The only remaining condition is the recording of the O&M plan.

2016-039 Sands Parcel (The Fields at Meadow Ridge), Plymouth. This is a 20.5-acre site located on the northeast side of the intersection of CR 47 and Troy Lane North. At its October 12, 2016 meeting, the Commission approved the project conditioned that an O&M plan be recorded within 90 days following the final plat approval.

2016-052 The Woods at Rush Creek, Maple Grove. At their March 2017 meeting, the Commission approved Staff's findings and recommendations dated February 15, 2017. Outstanding items are the biofiltration pond, O & M plans, and recording.

2017-014 Laurel Creek, Rogers. At their June 14, 2017 meeting the Commission approved Staff findings dated June 13, 2017, in which they recommended approval of 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.*

2017-017 Mary Queen of Peace Catholic Church, Rogers. At their June 14, 2017 meeting the Commission granted Staff approval authority pending satisfactory compliance with Staff's findings dated June 16, 2017. All items from the

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

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

Italics indicates new information

indicates enclosure

findings have been completed with the exception of the operation and maintenance agreements for the stormwater facilities.

2017-021 Hindu Society of MN, Maple Grove. At their June 14, 2017 meeting, the Commission approved this project per Staff's recommendations. All the recommendations have been met with the exception of the O&M plan agreements.

FISH LAKE INTERNAL LOAD PROJECT.

A. The advertisement and accepting bid application period for the alum treatment closes on July 27, 2017. One bid was received during the application period -- from HAB Aquatic Solutions. There were no other bids for the project submitted. The estimated cost for Phase 1 of the alum treatment was \$176,379.

B. The awarding of the bid to HAB Aquatic Solutions will be going to the Three Rivers Park District Board for approval on August 24, 2017.

C. The tentative date for the Alum Treatment would be during the week of September 18. This date may change due to logistics and coordination efforts with the various partners involved with the project. Brian Vlach will be contacting TRPD staff, FLARA, Maple Grove, and the Commission to work out logistics for the final treatment date.

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

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

Italics indicates new information

indicates enclosure

elm creek

Watershed Management Commission

Item 4a_ao

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

TECHNICAL OFFICE
Hennepin County Public Works
Department of Environment and Energy
701 Fourth Ave. South, Suite 700
Minneapolis, MN 55415
PH: 612.596.1171
E-mail: jason.swenson@hennepin.us

Brayburn Trails **Dayton, Project #2017-029**

Project Overview: Brayburn Trails is a 256-unit housing development located south of 117th Ave North and East of East French Lake Road. The project is proposed to take place on 154 acres of land. Current landcover on the site consists of agricultural crops over the majority of the site, with the remainder in wetland and woodlands, including forested wetlands, much of which is located in mapped floodplains. Approximately 68 acres of the site will be disturbed for development. The remainder of the site will remain as wetlands and forested wetlands. This site was the subject of a previous EAW reviewed by the ECWMC in February of 2017. Our review will be for compliance to the Commission's 3rd generation standards and rules and comments made during the EAW process.

Applicant: The Excelsior Group, 1660 Highway 100 South Suite 400, Saint Louis Park, MN 55416. Phone: 952-525-3239. Email: steph.griffin@excelsiorllc.com

Agent/Engineer: Pioneer Engineering, – c/o Paul Cherne, P.E., 2422 Enterprise Drive, Mendota Heights, MN 55120. Phone: 651-251-0630. Email: pcherne@pioneereng.com

Exhibits:

- 1) ECWMC Request for Plan Review and Approval received 6/20/2017
- 2) Project review fee of \$6,550 on June 20, 2017.
- 3) Complete plan was received on June 20, 2017.
- 4) Brayburn Trails, Preliminary Plat and PUD Submittal (dated June 7, 2017, unsigned)
 - 1.....Cover Sheet
 - 2.....Legend Sheet
 - 3-8Existing Conditions
 - 9-14Preliminary Plat
 - 16-20Preliminary Site & Utility Plan
 - 21-25Preliminary Storm Sewer Plan
 - 26-31Preliminary Grading Plan
 - 32-33Preliminary Erosion Control Plan
 - 34-36Grading & Erosion Control Details
 - 37.....Wetland Impact & Mitigation Plan
 - 38.....Wetland Buffer Plan

39.....Floodplain Impact & Mitigation Plan
L1-4.....Landscape Plan
T1.....Tree Preservation Plan
S1.....Preliminary Storm Credits

5) Preliminary Storm Water Management Plan, dated June 7, 2017

Findings:

- 6) A complete application was received on June 20, 2017. The initial 60-day review period expires August 19, 2017.
- 7) In general, the site drains in two directions. The majority of the site discharges to the wetlands located to the south and west of the site. These wetlands were historically ditched and then drain to the south, discharging to Rush Creek near the intersection of East French Lake Road and Territorial Road (County Road 81). The northeastern portions of the site discharge north across 117th Avenue through adjacent cropland. From there, the drainage enters a wetland complex that discharges under Fernbrook Lane (County Road 121) eventually discharging to Elm Creek just south of Hayden Lake.
- 8) Stormwater treatment will be provided in two NURP ponds with attached biofiltration areas, one wet retention basin only, one biofiltration basin only, and three stormwater reuse basins (water used for irrigation). See Rule D below.
- 9) To provide the required stormwater treatment for rate, quality and volume the applicant is proposing to use NURP ponds, biofiltration, stormwater reuse, preservation of forested areas, providing wetland buffers in excess of the minimum requirements, and the disconnection of impervious surfaces.
- 10) Rule F. An area of general 100-year floodplain (also known as an unnumbered A zone area) is located on a significant portion of the parcel. These zones do not have a 100 year floodplain elevation (Base Flood Elevation – BFE) determined for the FEMA mapping at this time. The developer provided an email communication which indicated a 100 year BFE of 907.9 for this property. However, no calculations or other supporting documentation were provided to support this elevation.

In addition, there are multiple locations on this project where lots are proposed in areas that are currently mapped as 100 year floodplains. It is strongly suggested that the City require the developer to apply for a Letter of Map Amendment (LOMA) to remove these areas from the FEMA floodplain maps. If a LOMA is not obtained for this project, it is likely that there will be many issues with financing on the affected parcels in the development.

Revisions or additional submittals required to satisfy ECWMC rules for floodplains include:

- a. Provide additional supporting documentation to support the proposed BFE of 907.9.

- b. Provide calculations showing that the project nets out with either zero change in floodplain storage below the proposed BFE or an increase in storage.

11) Rule G. Wetland Alteration. The City of Dayton is the Local Government Unit administering the Wetland Conservation Act of Minnesota. A wetland delineation has been completed and approved by the LGU in October of 2015.

The applicant proposes impacts to 0.47 acres of wetlands to complete the project. The applicant is proposing to purchase 0.946 acres of banking credits to mitigate the proposed impacts. Credits are proposed to be purchased from one of three wetland banks located either in Wright or Carver Counties. The ECWMC at a minimum would like to have at least a 1:1 replacement of wetland credits located within Hennepin County. The ECWMC will comment on the wetland replacement plan with this suggestion for Dayton in its role as WCA LGU.

The project plans show the wetland replacement coming from mitigation on site, which does not match the WCA replacement plan application. These plans should be reconciled.

12) Rule I. Buffer requirements. Buffers are required to be an average of 25 feet wide, with a minimum width of 10 feet. 314,459 square feet of wetland buffer are required around the wetlands on the project. 319,090 square feet are proposed to meet this requirement. As proposed, the project appears to meet and exceed the ECWMC requirements for wetland buffers around the 4 wetlands located on the site that will remain after the project.

13) Rule E. Erosion and Sediment Control will meet the Commission's requirements with minor revisions:

- a) A final plan, dated and signed by a Professional Engineer licensed in Minnesota, must be submitted to the Commission and the City of Dayton.
- b) The SWPPP must include a map identifying the receiving waters from the site. Rush Creek is located downstream of the project and is within 1 mile, so the special provisions in the NPDES permit will apply to this project. This is correctly identified in Section C. of the preliminary stormwater management plan.
- c) The plans should have an actual Statement of Estimated Quantities (SEQ) on the plans for at a minimum of all erosion control items to comply with NPDES permit requirements.
- d) The erosion control plans must provide redundant sediment control devices (such as a second line of silt fence) adjacent to the wetlands where the required 50 foot buffer in the NPDES permit will not be maintained.

14) Rule D. Stormwater Management will be provided by two wet retention ponds with attached biofiltration areas (500P and 700P), one wet retention basin only (850P), one biofiltration basin only (800BF), and three stormwater reuse basins (water used for

irrigation) (Basins 100P, 200P, and 300P). Total irrigated area will be 15 acres. All of the ponds are sized in excess of minimum NURP requirements.

- 15) Water quality and nutrient analysis: The existing total phosphorus (TP) and total suspended sediment (TSS) loads from the site are 104.2 and 18,936 pounds per year, respectively. The post-development consolidated TP and TSS loads are 53.8 and 4,506 pounds/year, respectively. The TP post-development loads are estimated by using the PondNet output, 20% removal efficiency due to the filter benches and about 35% reduction due to water reuse. Post-development TSS loads are estimated about 60% TSS removal by the ponds (PondNet), 80% removal by the filtration systems and about 46% reduction due to water reuse. The water quality treatment plan meets the Commission's standards.
- 16) The abstraction requirement for 35.9 acres of new impervious cover is 3.288 acre-feet. The project is proposing to use stormwater reuse for irrigation, upland preservation, wetland buffer oversizing, and impervious area disconnection to achieve the abstraction requirement. In addition to these measures, two of the basins will have biofiltration benches and one solely biofiltration area will be provided. Following table is a summary of the abstraction credits claimed by this project. The volume abstraction plan meets the Commission's standards.

Abstraction Credit Summary

BMP	BMP Description	Area (acre)	Abstraction Credit / Requirement (acre-feet)
100P, 200P, & 300P	Stormwater Reuse Basin ¹	NA	3.588
500P	Biofiltration Basin ²	NA	0.423
700P	Biofiltration Basin ²	NA	0.631
850BF	Biofiltration Basin ²	NA	0.283
Soil Amendments	Soil Amendments	0.000	0.000
Upland Preservation	Upland Preservation	4.020	0.168
Wetland Buffer	Wetland Buffer Oversizing	8.075	0.336
Impervious	Impervious Disconnection	1.922	0.176
Total Site BMP Credits			5.605
Total Site Abstraction Requirement	New Impervious Coverage	61.317	3.288

1) See RWMWD Reuse Calculator Results

2) See Filtration Credit Table

In general, the proposed plan appears to clearly provide the required abstraction, pending resolution of the following comments:

- a. A long term vegetation plan is required to be submitted with the stormwater management plan for the required conservation easement areas over existing upland that is proposed to be preserved.
- b. The locations of required monumentation should be shown and added to the plans.
- c. Provide details on the proposed construction of the biofiltration areas, showing depths of materials, material specifications and scarification of existing soils.

17) Stormwater rate control. The post-development stormwater runoff rates for the 2-, 10- and 100-year events meet the standards as presently modeled and are shown below:

Drainage Area	2-year Flow Rate (cfs)		10-year Flow Rate (cfs)		100-year flow rate (cfs)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
North	7.34	1.01	10.35	2.45	13.39	7.15
Northeast	40.04	7.81	72.05	25.49	145.85	69.39
Southwest	57.18	28.45	109.12	62.16	220.39	144.60
Southeast	41.54	6.26	77.08	13.96	140.59	38.73

18) No details on the proposed outlets from any of the basins were provided on the plansheets. Details matching the modeling submitted must be submitted for review and approval.

19) Stormwater Management Plan Summary:

Water Quality (Nutrient and TSS) and Runoff Volume Summary				
Development Name: Brayburn Trails, Dayton				
Total Parcel Area: 154 acres				
Total Lot Area: 57.7 acres				
Total Buildable Area: 105 acres				
Total Impervious Area: 35.9 Acres				
Review Month/Year: July 2017				
Nearest Downstream Surface Water: Rush Creek is located downstream of the site to south, Elm Creek is located downstream of the site to the northeast.				
Condition	TP Load (lbs./yr) ¹	TSS Load (lbs./yr) ¹	Abstraction Volume Credit (ac-ft) ²	Filtered Volume Credit (ac-ft) ²

Pre-development (baseline) Load	122.6	18,936	4.268	1.337
Post-development Without Mitigation	206.1	NA		
Post-development With Mitigation	53.8	4506		
Net Change ("baseline" compared to "post-development with mitigation")	-68.8	-14,430		

¹Average annual values

²See Abstraction Credit Summary Table.

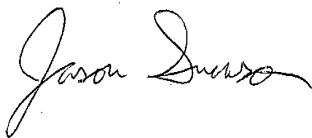
20.) At the time of writing this report, it was not certain which party (City of Dayton) or the applicant) would be responsible for the operation and maintenance of the stormwater management facilities. A responsible party must be established for the O&M Plan.

Recommendation:

Staff recommends the approval of the project with the following conditions:

- **Provide revisions required under item #10a & #10b**
- **Provide revisions required under item #13a, #13b, #13c, and #13d**
- **Provide revisions required under item #16a, #16b, and #16c**
- **Provide revision required under item #18**
- **Resolve item #20.**

Hennepin County
Department of Environment and Energy



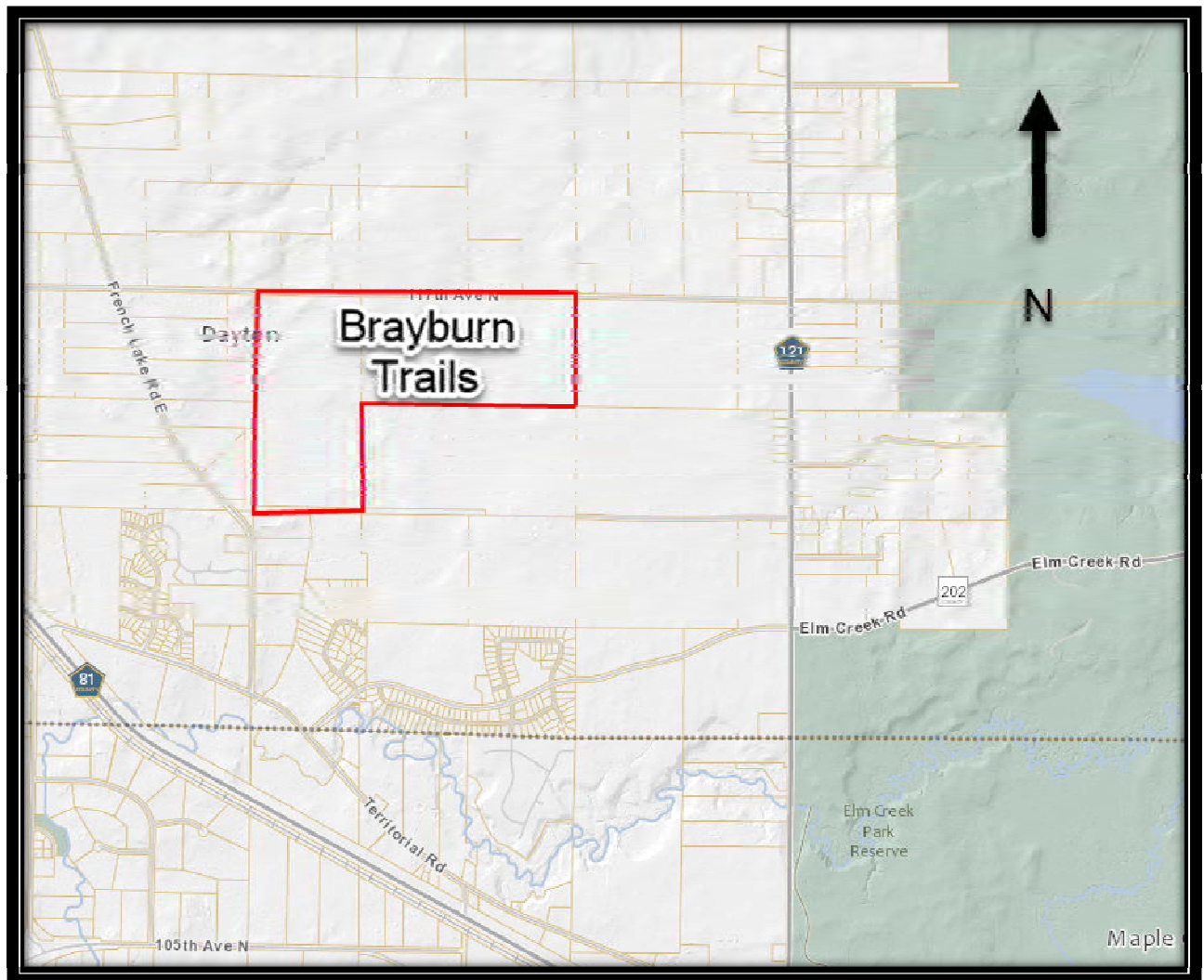
August 2, 2017

Jason Swenson, P.E.

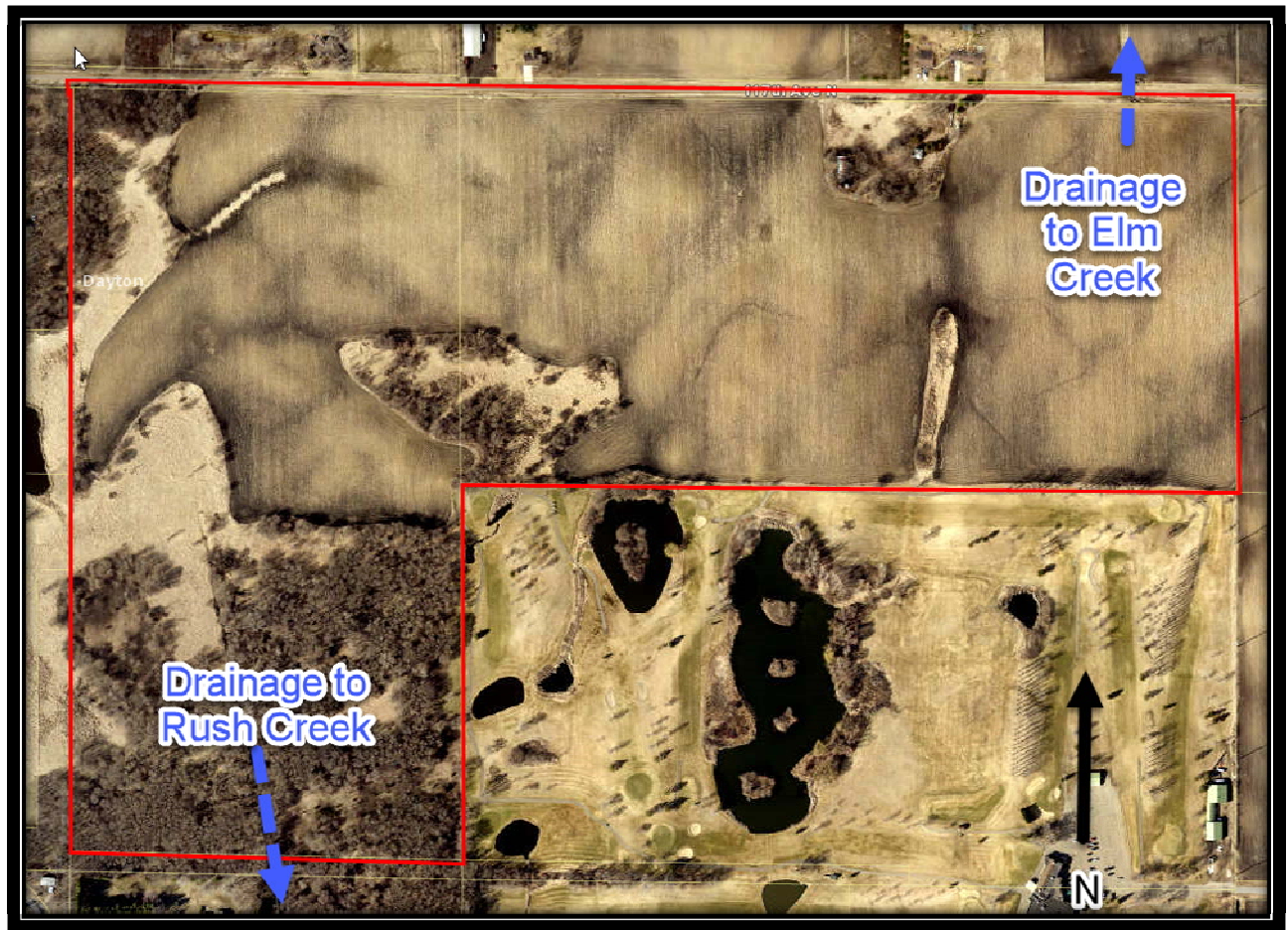
Technical Advisor to the Commission

Z:\Elm Creek\Projects\Projects 2017\2017-029 Brayburn Trails\2017 029 Brayburn Trails FOF.docx

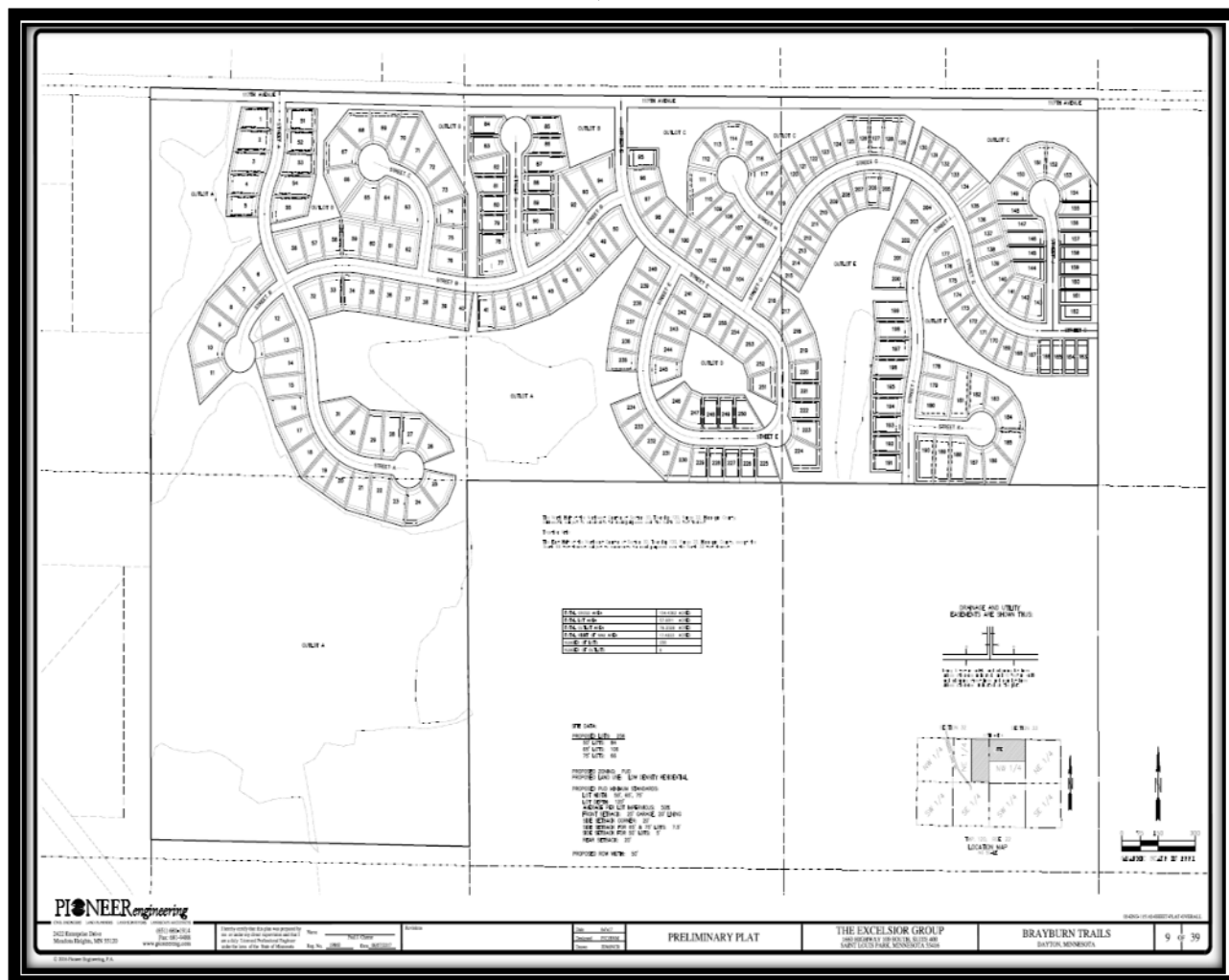
SITE LOCATION



AERIAL PHOTO



PRELIMINARY PLAT



[illegible]

Minnesota Wetland Conservation Act

Technical Evaluation Panel Findings Report

Date(s) of Site Visit/Meeting: July 6, 2017 LGU: Elm Creek Watershed Management Commission
 County: Hennepin LGU Contact: James Kujawa
 Project Name: Cartway Trail Phone #: 612-348-7338
 Location of Project: 1912021330002 Email: james.kujawa@hennepin.us
 (attach map if possible) Address:

TEP ATTENDEES:

LGU: James Kujawa

SWCD: did not attend

BWSR: Ben Mayer

DNR: did not attend

OTHER ATTENDEES:

Jason Swenson, Elm Creek WMC

Dustin Simonson, WSB-Agent City of Champlin

OTHER ATTENDEES:**PROJECT DESCRIPTION AND PURPOSE OF MEETING:**

LGU called the TEP to discuss the sequencing analysis and discussion provided by the applicant in their June 8, 2017 memo. The meeting was held on-site to review the preferred and alternative layouts and their affects to the wetland/trees/trail alignments and natural resource areas and other considerations as discussed in the memo.

TYPE OF MEETING: Check all applicable☐ Office☒ On-Site☐ Phone Conference☐ E-Mail☐ Other: _____**TEP FINDINGS AND RECOMMENDATIONS ¹:**

One preferred and three alternative layouts were presented in a memo from the applicant on June 8, 2017 (attached). The TEP inspected the site on July 6, 2017. The wetland impacts, per the memo, are as follows; 1) Applicant Preferred Alternative, -2,172 sq. ft. 2) Alternative 1, -1,000 sq. ft. 3) Alternative 2, -100 sq. ft. and 4) Alternative 3, -No impacts.

Discussion; Alternative 3 was dismissed by the TEP due to the easement acquisition/logistics/impacts to existing ROW and private property issues.

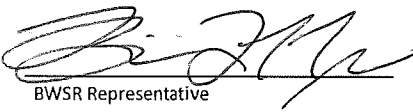
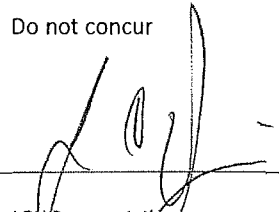
Alternative 2 was considered an acceptable alternative to the TEP. They felt the minimum wetland impacts (100 sq. ft.) were good for the natural resource, but the TEP also recognized the connection to the existing trail was at a 90 degree angle, affecting the bike and pedestrian safety aspect for such an approach to the intersection. the number of trees affected by this layout was questioned by the TEP.

Alternative 1 was the preferred alternative by the TEP. They felt it was a good compromise between the larger impacts (2,172 sq. ft.) of the applicants preferred alternative and the expected impacts for this alternative (1,000 sq. ft.) The TEP felt the impacts should be reduced further by the applicant constructing a retaining wall and fence along the wetland edge. The number of 8"+ trees impacted by this alignment seemed to be overestimated significantly. The TEP felt the trail alignment could be adjusted somewhat to avoid most, if not all the trees >8" in diameter without affecting the wetland filling necessary for a safe trail. The TEP also felt this alternative provided the intersection approach the applicant desired without compromising the safety and sight lines for pedestrians and bicyclists. They also felt this alignment was a good compromise for preserving some of the natural buffer vegetation between the existing homes and the new trail alignment.

¹ TEP Findings should be a meaningful concise summary detailing the project conditions, technical data, and what rules apply. The TEP recommendation should be clear, based on rule and best professional judgement.

Recommendations to the LGU. Per MN WCA Rule 8420.0520 subp 3 C and subp 4, A thru F and ECWMC Stormwater Management Plan, adopted October 2015, Appendix C Rule G; unless the applicant can provide additional detailed descriptions and information that the TEP should consider for their preferred alternative, the TEP recommends the LGU requires the applicant pursue alternative 1 as shown in their memo dated June 8, 2017 (attached) with the addition of designing retaining walls and safety fence for additional wetland minimization on the north side of the impacted area. The TEP also recommends the applicant pursue, to the greatest extent practicable, replacement wetland banking credits within the Elm Creek Watershed and Hennepin County, to achieve no-loss in the quantity, quality and biological diversity of wetlands in the watershed.

SIGNATURES

_____ SWCD Representative	_____ Date	 BWSR Representative	<u>7/14/2017</u> Date
Do not concur <input type="checkbox"/>		Do not concur <input type="checkbox"/>	
 _____ LGU Representative	<u>7/10/17</u> Date	_____ DNR Representative	_____ Date
Do not concur <input type="checkbox"/>		Do not concur <input type="checkbox"/>	

¹ TEP Findings should be a meaningful concise summary detailing the project conditions, technical data, and what rules apply. The TEP recommendation should be clear, based on rule and best professional judgement.



Memorandum

To: James Kujawa, Elm Creek Watershed Management Commission

CC: Charlie Lehn, City of Champlin

From: Dustin Simonson, WSB & Associates, Inc.

Date: June 8, 2017

Re: Cartway Trail
City of Champlin
WSB Project No. 01934-230

The following information has been gathered to address the comments received May 17, 2017 from the Elm Creek Watershed Management Commission (ECWMC) about the Cartway Trail project within the City of Champlin.

- 1) Can you provide at least two alternative alignments of the trail that show why or why not they meet the bike design standards or the trees and wetland areas they will impact. Preferred vs alternatives.
 - a. A specific tree survey isn't necessary, but the diameter and type that would be impacted by the alternatives would be helpful.

The Cartway Road Trail Improvements extends an existing trail west, along Elm Creek to Cartway Road and then north adjacent to Cartway Road to an existing parking area/trail head. The City of Champlin purchased the land in which the trail is being extended to complete another segment of a greenway trail corridor along the south side of Elm Creek. The existing trail alignment extends from the local residential street of Elm Creek Road between residential property to Elm Creek and then easterly along the south side of Elm Creek to East Hayden Lake Road near the Gettysburg intersection. The City currently owns the land east of this terminus and will ultimately extend the trail along the south side of Elm Creek to T.H. 169. That trail alignment will then complete a greenway corridor from Cartway Road east to T.H. 169. The proposed trail width of 10-feet is the minimum width recommended by trail design standards for multi-purpose trails with two-way bicycle traffic. The width is also needed due to the shorter sight lines and distances that are a result of its curvilinear alignment and greenway appeal.

The City of Champlin is also working with a property owner west of Cartway Road, to extend the trail west along the north side of Elm Creek to an existing trail system located in Josephine Nunn Park. Upon completion of these three segments, the proposed, the easterly segment, and the westerly segment, the trail will extend from the Elm Creek Park Reserve owned by Three Rivers Park District, east to the City Park System located northeast of T.H. 169 and East Hayden Lake Road. The greenway trail will have several accesses that extend out to the adjacent neighborhoods.

Preferred alternative: The proposed trail alignment goes south along Cartway Road and then turns east to connect with the existing trail within the area. The proposed trail alignment was selected as it maintains a greenway feel to the trail, meets trail design standards for a continuous trail, and has balanced impact on the environment and on the adjacent neighborhood. The alignment has a proposed wetland impact of 2,172 square feet and has the least impact to trees (10 trees, 8 inches dbh or less, ash and boxelder) and grading disturbance.

Three alternative trail alignments were explored in addition to the proposed trail (see attached Cartway Road Trail Project figure).

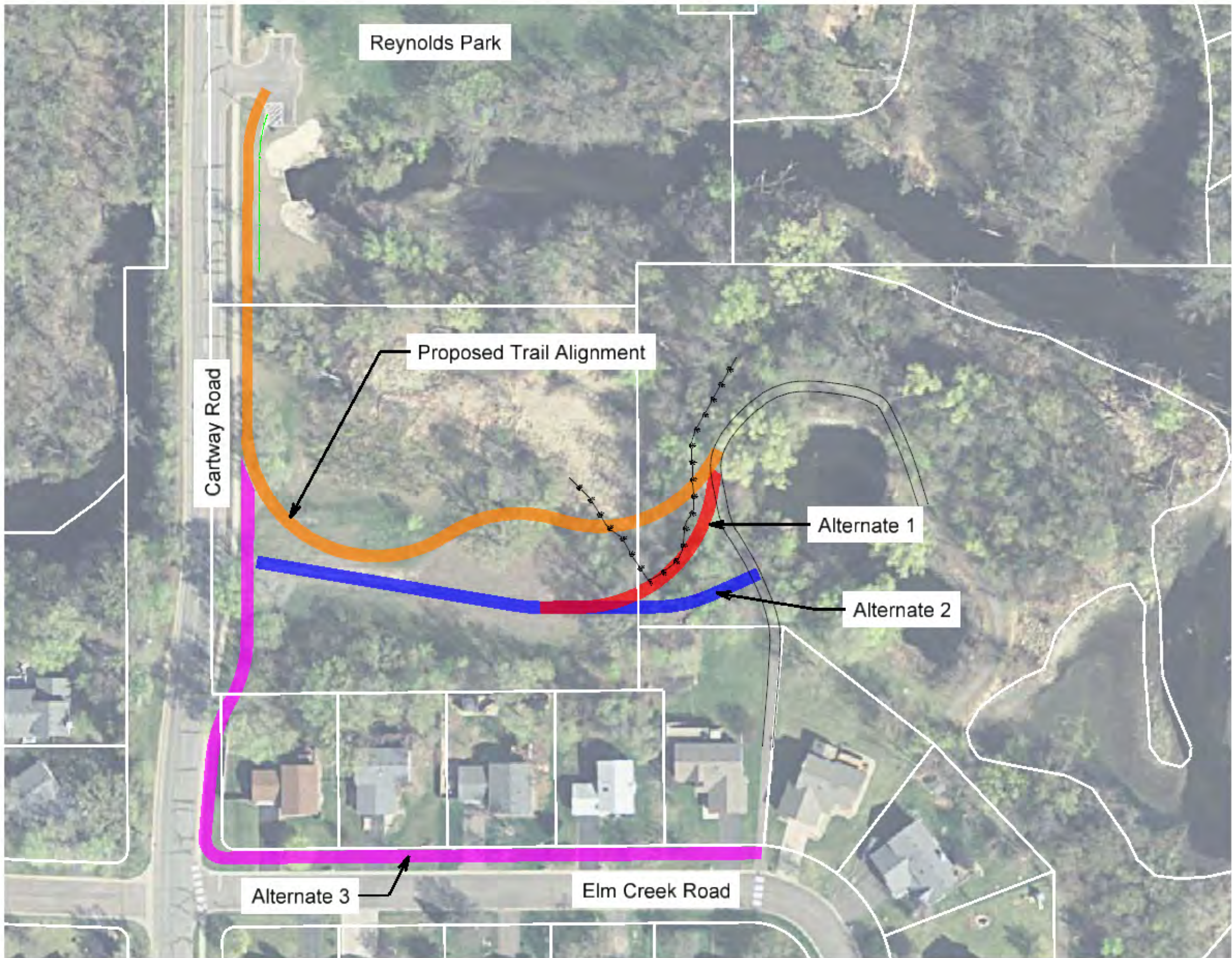
Alternative 1: This alternative has the trail alignment shifted further south than the preferred trail alignment. This alignment would still have wetland impact due to grading on the north side of the trail to provide the necessary clear zones for the trail. The slopes adjacent to the wetland area are steeper and slightly higher along this alignment, which would result in longer slopes extended on the north side of the alignment into the wetland area. This would cause more tree removal than the preferred alternative (24 ash trees ranging from 8 – 14 inches in Diameter) and slope grading along with approximately 1000 square feet of wetland impacts. The amount of tree impact and grading along with the wetland impacts has made this alignment undesirable.

Alternative 2: This alternative follows alternative 1 alignment and then stays further south to meet up with the existing trail. This trail alignment does not create the continuous route as desired by the City, as this alignment ties into the existing trail at a 90-degree angle. This is not conducive to bikers using the path and creates a safety concern for the city as it limits sight lines of the approaching trail. This alignment would have greater tree impacts than the preferred alternative (14 trees 8-12 inches dbh, ash, box elder, and elm) and along with approximately 100 square feet wetland impacts due to the necessary slopes that are required for the trail and clear zones. Because the lack of continuity and poor sight lines create safety risks for bikers, the tree removal is greater, and wetland impacts are not avoidable, this trail alignment was deemed undesirable.

Alternative 3: A third alternative was explored to extend the trail along the north side of the local residential street of Elm Creek Road. Constructing the 10-foot trail within a 14-foot space that crosses five driveways is very undesirable. Due to mailboxes and street signs, trail easements would be required from the adjacent properties. The north- south trail extension adjacent to Cartway Road would also require trail easements, tree clearing and impacts on private property. A significant deterrent for this alignment is the trail would no longer be adjacent to Elm Creek and it would lose its greenway appeal.

Based on the above analysis it was determined that the proposed trail creates the desired greenway appeal the City desires for the trail.

If you have any additional questions regarding this submittal, please contact me at dsimonson@wsbeng.com or 763-270-3475.



K:\01934-230\Cad\Plan\out-option.dgn
6/8/2017 8:25:55 AM

NO.	DATE	BY	CHK	REVISIONS

Design By:	BJP
Plan By:	BJP
Checked By:	TCH
Approved By:	TCH

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A duly LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MINNESOTA.	
Timothy C. Hansen PE	19574



877 Temperance Street
St. Paul, MN 55101
Tel: 612.224.4400 - Fax: 612.224.4401
www.wsbmn.com

Engineering • Planning • Environmental • Construction

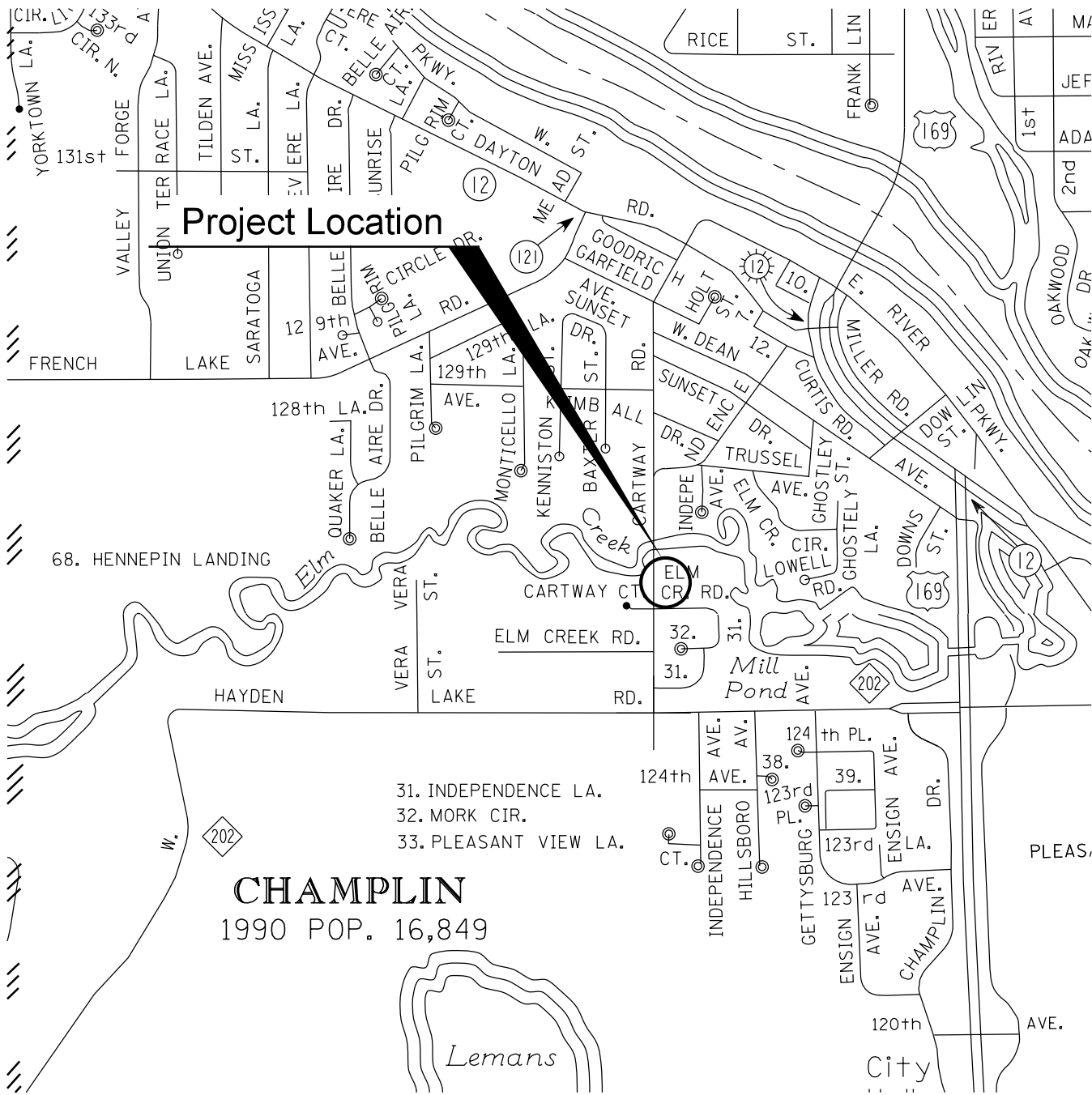
Cartway Road Trail Project
For the City of Champlin

WSB Project 01934-230 City Project No. 21703

PLAN SYMBOLS

PROPOSED SANITARY	
EXISTING SANITARY	
PROPOSED STORM	
EXISTING STORM	
PROPOSED CATCH BASIN	
EXISTING CATCH BASIN	
PROPOSED WATERMAIN	
EXISTING WATERMAIN	
PROPOSED HYDRANT	
EXISTING HYDRANT	
PROPOSED CONCRETE CURB	

Cartway Road Trail Project
For the City of Champlin



GOVERNING SPECIFICATIONS

THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION", SPECIAL PROVISIONS, AND ANY AMENDMENTS THERETO AND THE "STANDARD UTILITIES SPECIFICATION, FOR WATERMAIN SERVICE LINE INSTALLATION AND STORM SEWER INSTALLATION" REFERENCED "CEAM" DATED 2013, OR AS MODIFIED IN THE PROJECT MANUAL.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES DATED FEBRUARY 2015, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, DATED JANUARY 2014.

INDEX

SHEET NO.	DESCRIPTION
1	Title Sheet
2	Typical Sections
3	Trail Plan
4-7	Cross Sections

THIS PLAN CONTAINS 7 SHEETS.

ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.



EXCAVATION NOTICE SYSTEM

A CALL TO GOPHER STATE ONE (454-0002) IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE UTILITIES HAS BEEN DESIGNATED UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C1/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE DATA". THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF PRIVATE UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE THE CONTRACTOR IS TO DETERMINE THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. STATE LAW REQUIRES ANYONE DIGGING, GRADING OR EXCAVATING TO OBTAIN A FIELD LOCATE OF ALL UTILITIES.

K:\01934-230\Cad\Plan\Title.dgn
2/8/2017 12:47:27 PM

NO.	DATE	BY	CHK	REVISIONS

Design By:	BJP
Plan By:	BJP
Checked By:	TCH
Approved By:	TCH

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

Timothy C. Hanson PE
DATE: XX/XX/XX LIC. NO: 19574



477 Temperance Street
St. Paul, MN 55101
Tel: (651)286-8450 - Fax: (651)286-8488
wsbeng.com

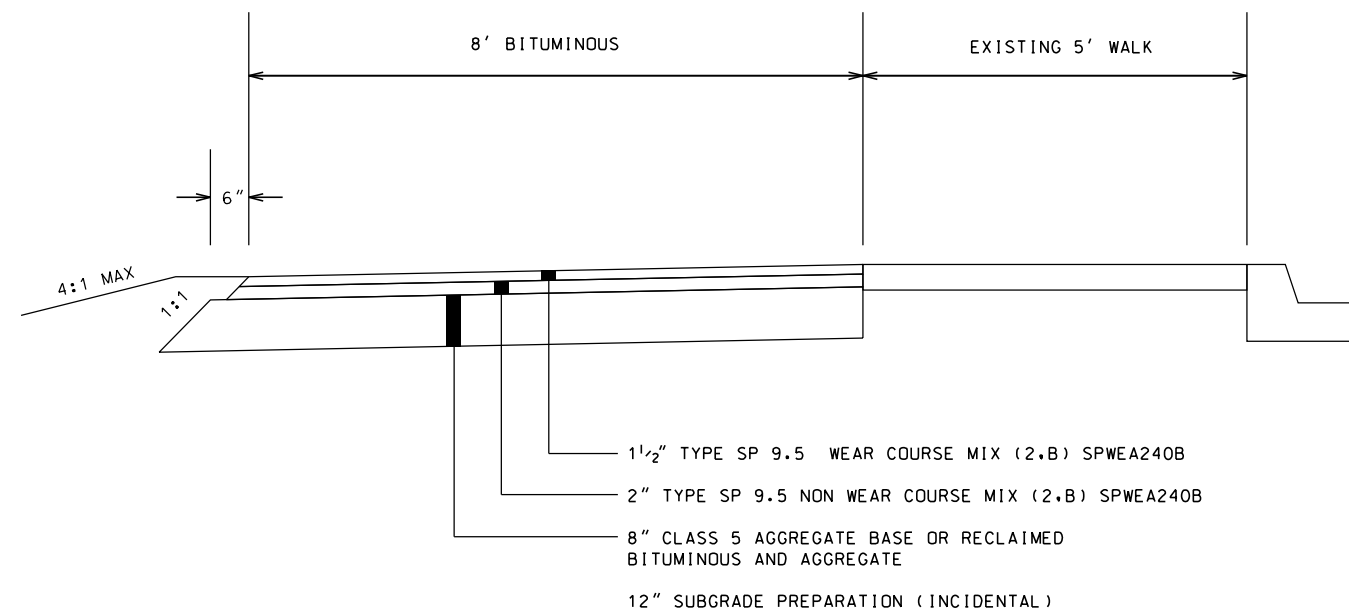
engineeringplanningenvironmentalconstruction

Cartway Road Trail Project
For the City of Champlin

WSB Project 01934-230
City Project No. xxxxx

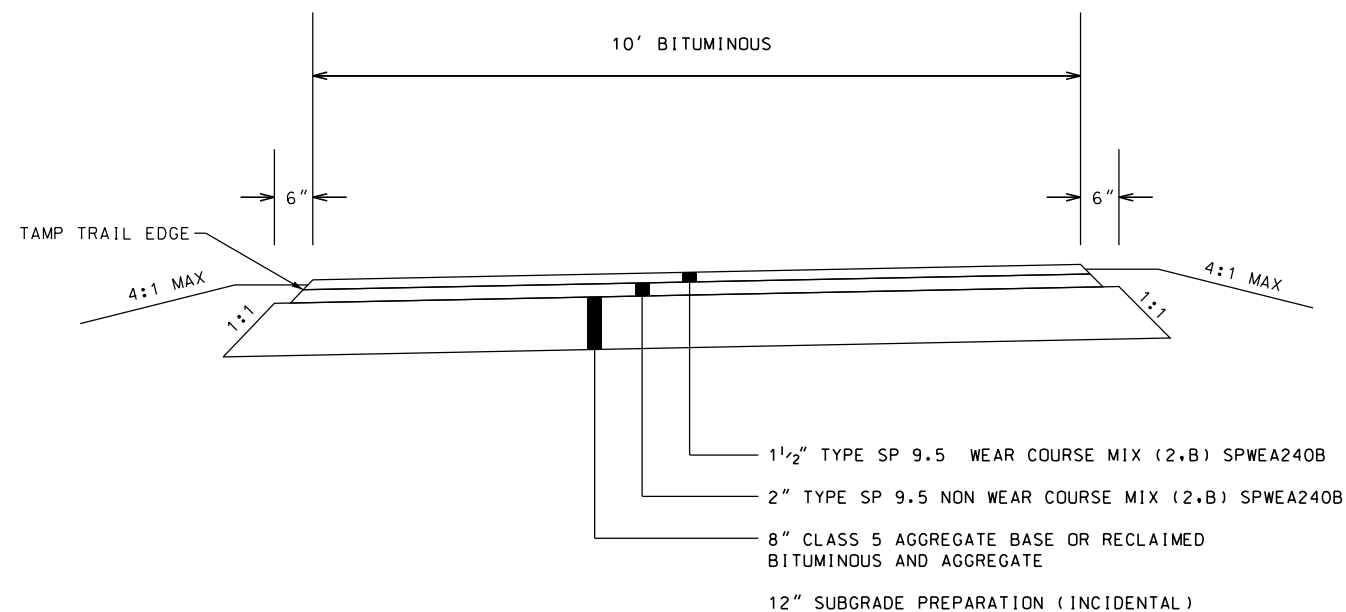
Title

SHEET
1
OF
7



Cartway Trail

STA. 100+00 to STA. 103+00



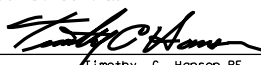
Cartway Trail

STA. 103+00 to 107+00

K:\01934-230\Cad\Plan\Typical-01.dgn
2/8/2017 12:47:27 PM

NO.	DATE	BY	CHK	REVISIONS

Design By:	BJP
Plan By:	BJP
Checked By:	TCH
Approved By:	TCH

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	
	Timothy C. Hanson PE
DATE: XX/XX/XX	LIC. NO: 19574

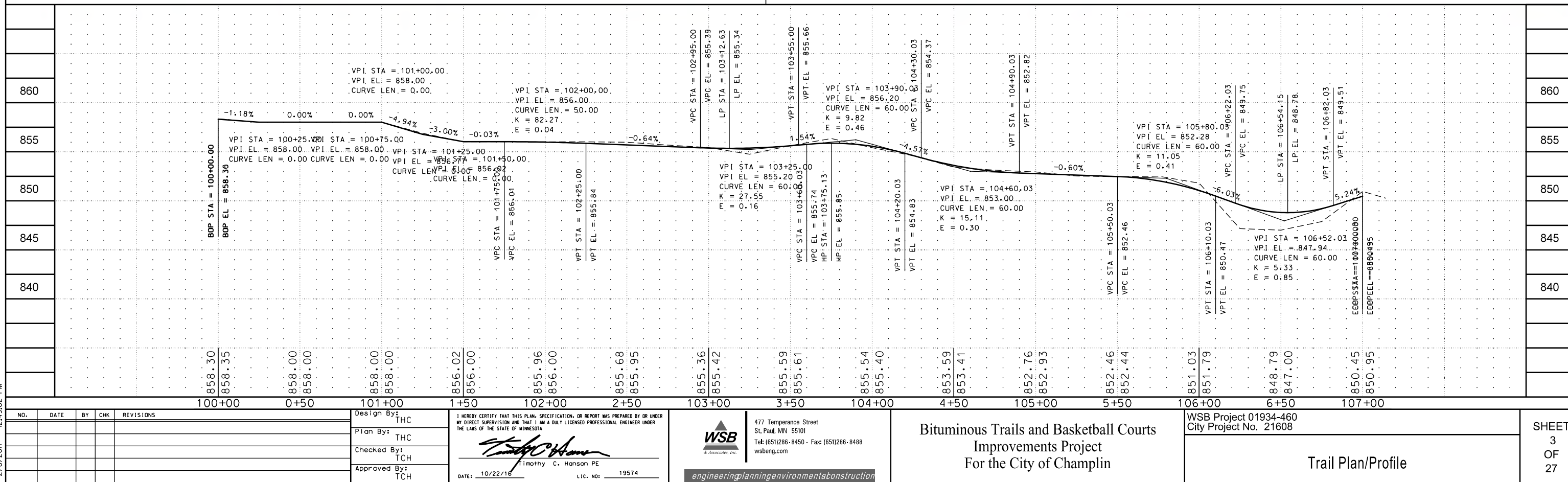
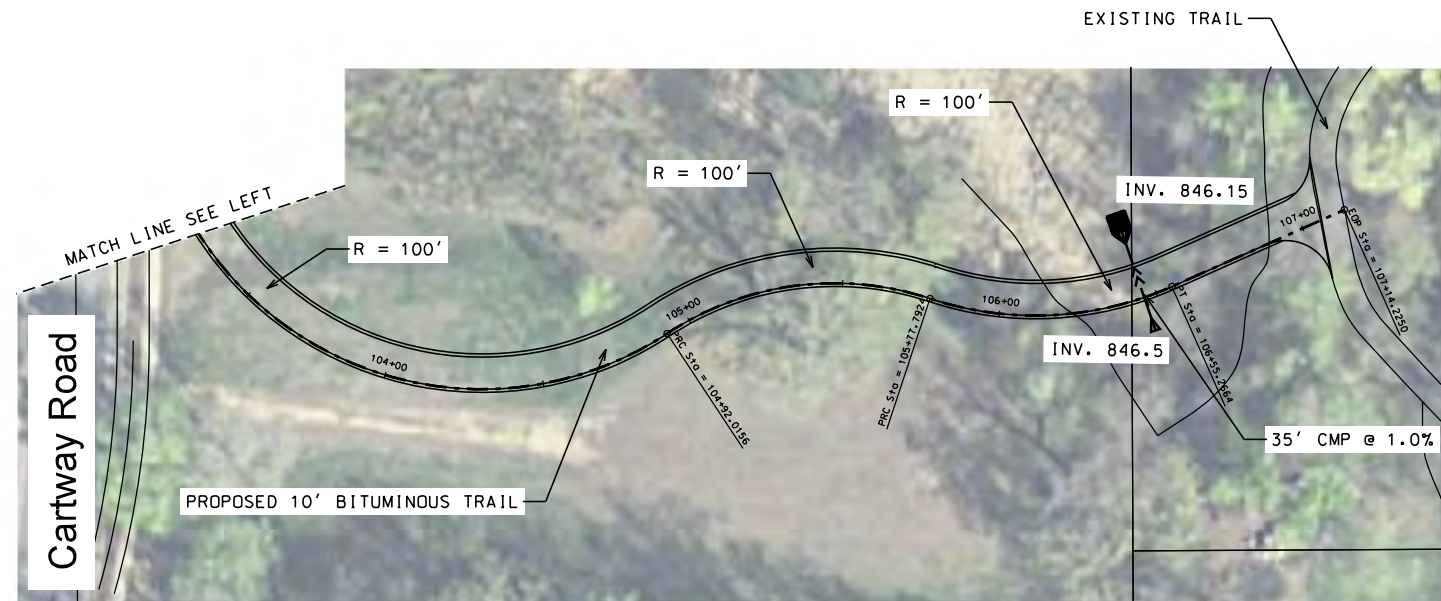
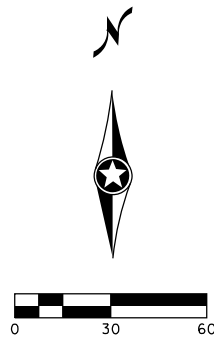
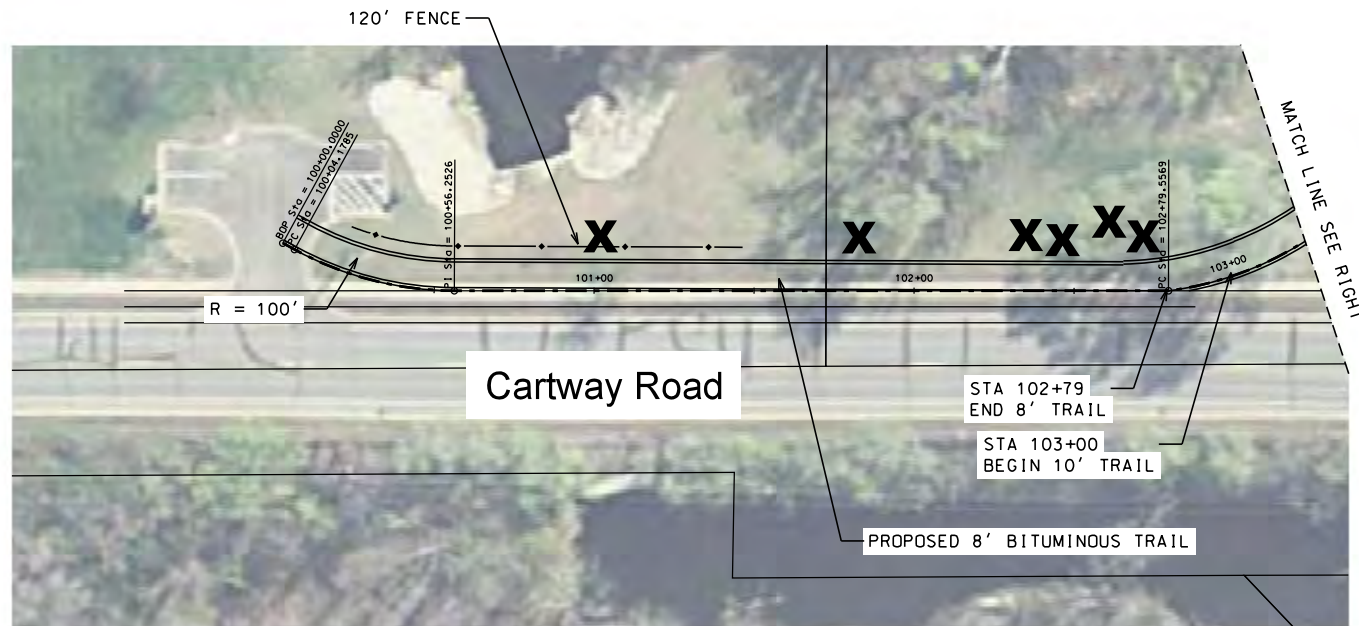
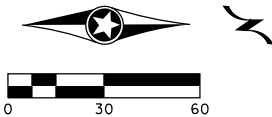
 WSB <small>Associates, Inc.</small>	477 Temperance Street St. Paul, MN 55101 Tel: (651)286-8450 - Fax: (651)286-8488 wsbeng.com
	engineeringplanningenvironmentalconstruction

Cartway Road Trail Project For the City of Champlin
--

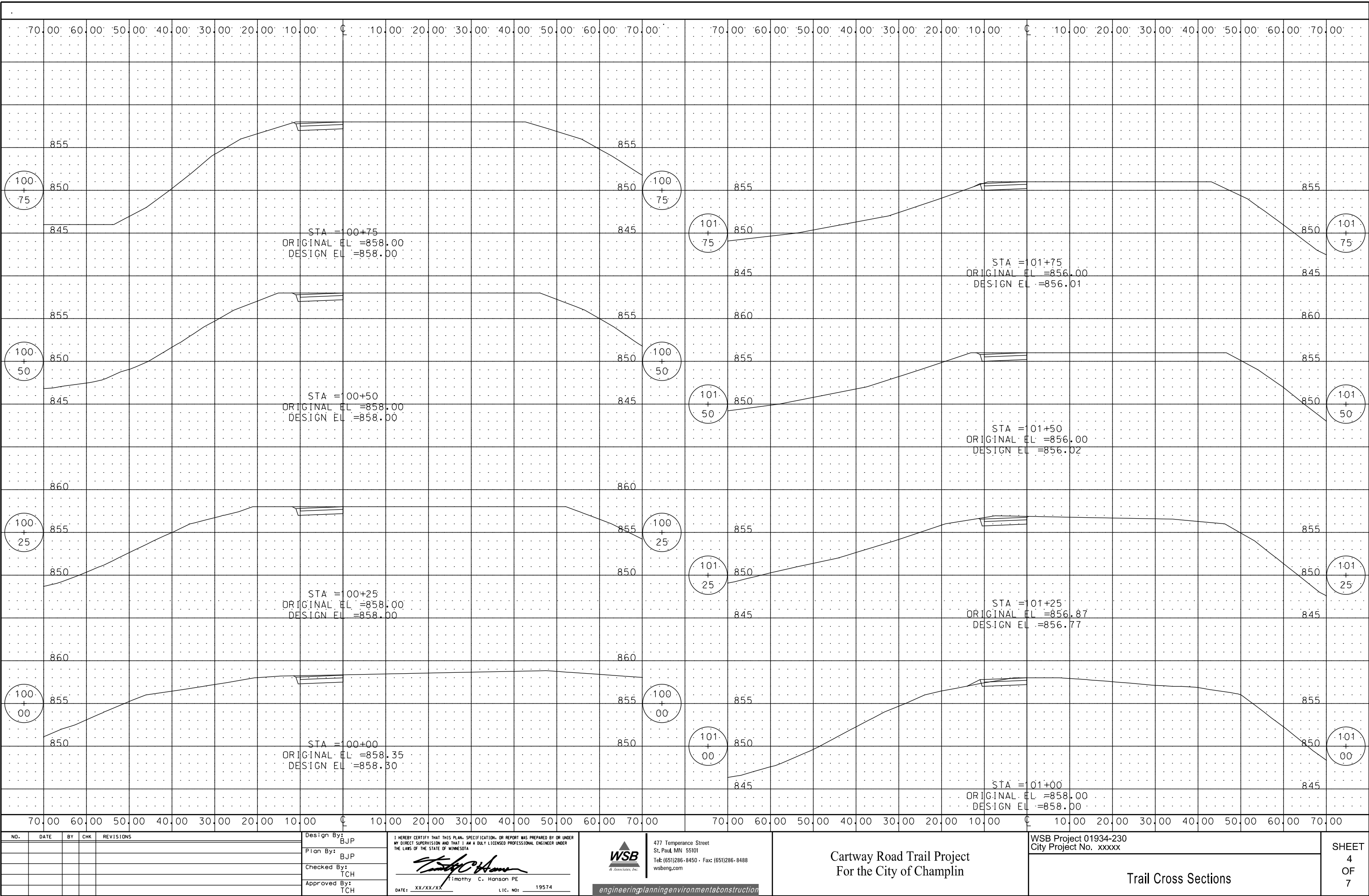
WSB Project 01934-230 City Project No. xxxxx	Typical Sections

SHEET
2
OF
7

X REMOVE TREE



K:\01934-230\Cad\Plan\X-sec1-01.dgn
2/8/2017 12:49:03 PM



NO.	DATE	BY	CHK	REVISIONS

Design By: BJP
Plan By: BJP
Checked By: TCH
Approved By: TCH

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

Timothy C. Hanson
Timothy C. Hanson PE
DATE: XX/XX/XX LIC. NO: 19574

WSB
Associates, Inc.
477 Temperance Street
St. Paul, MN 55101
Tel: (651)286-8450 - Fax: (651)286-8488
wsbeng.com

engineering | planning | environmental | construction

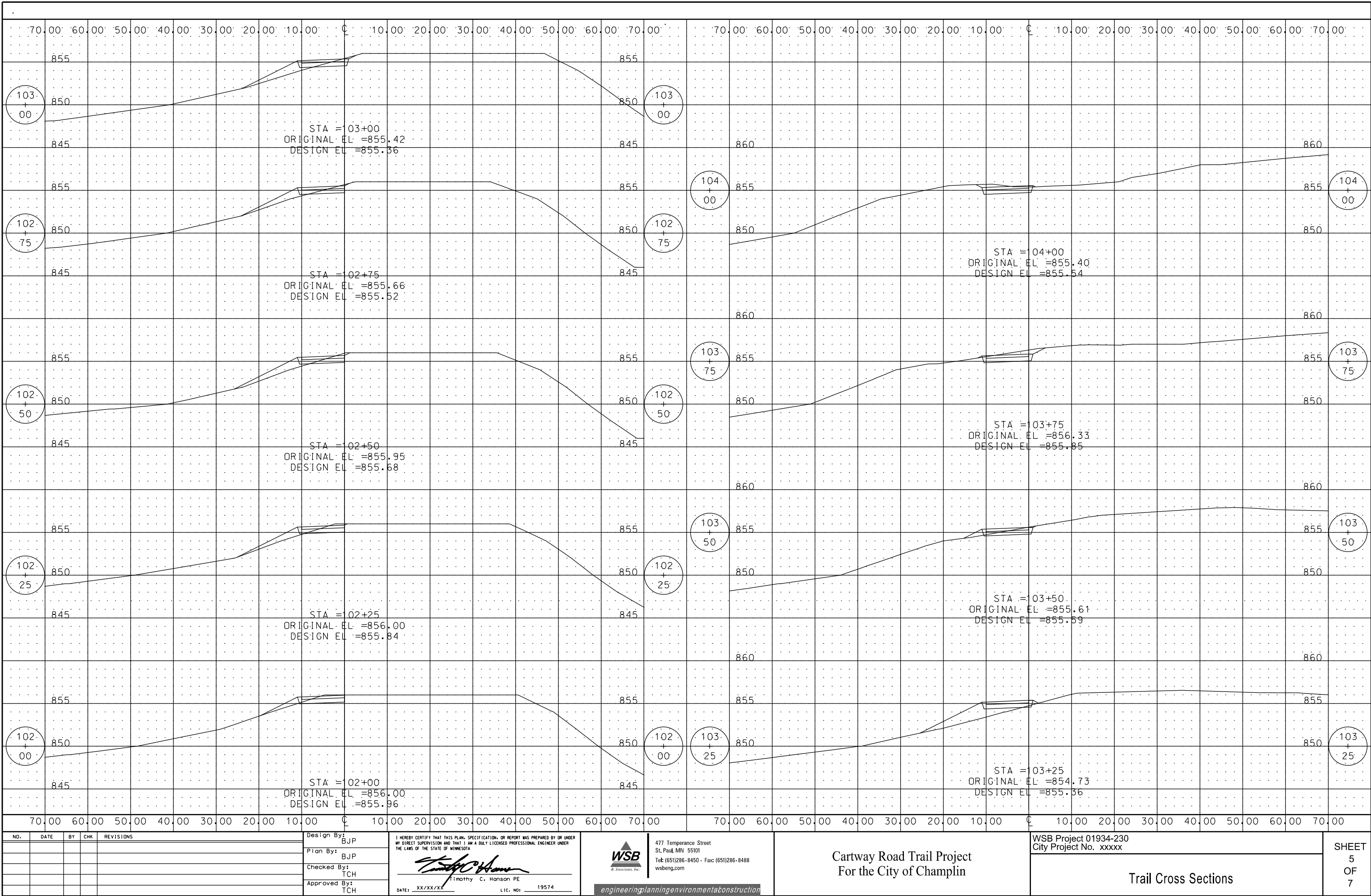
Cartway Road Trail Project
For the City of Champlin

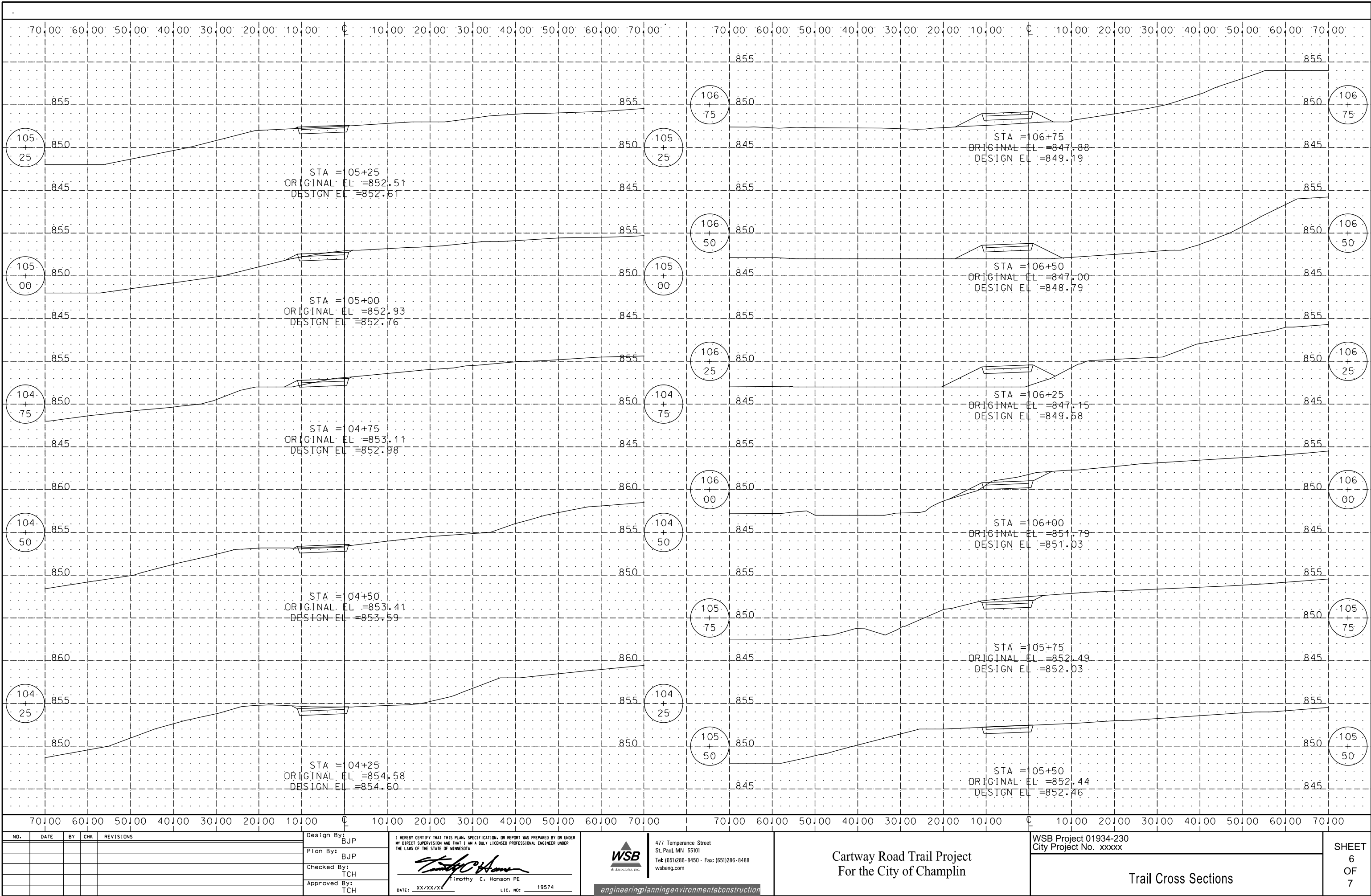
WSB Project 01934-230
City Project No. xxxxx

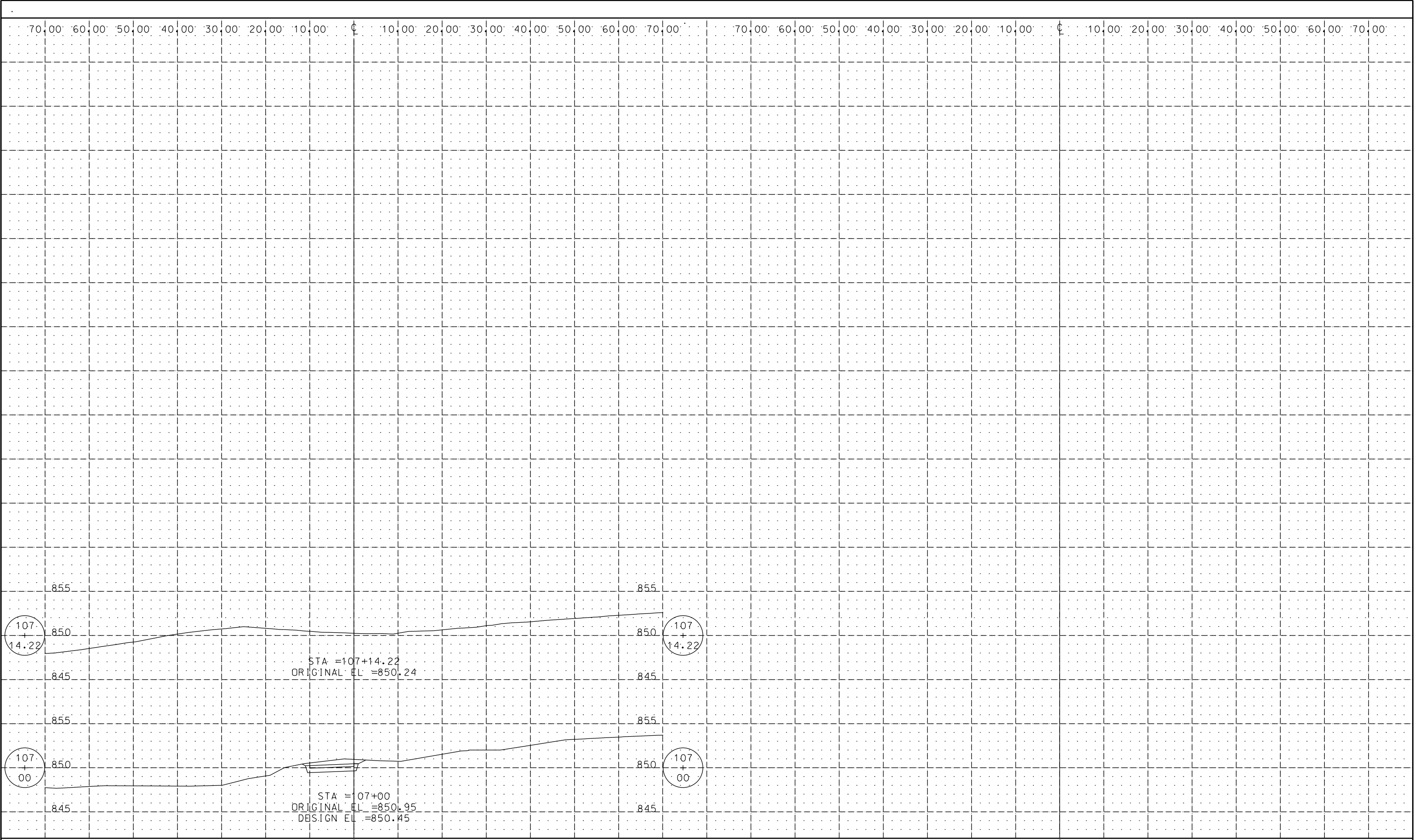
Trail Cross Sections

SHEET
4
OF
7

K:\01934-230\Cad\Plan\X-sec1-01.dgn
2/8/2017 12:49:03 PM







70100 60100 50100 40100 30100 20100 10100 0					10100 20100 30100 40100 50100 60100 70100					70100 60100 50100 40100 30100 20100 10100 0					10100 20100 30100 40100 50100 60100 70100				
NO.	DATE	BY	CHK	REVISIONS	Design By: BJP	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA		477 Temperance Street St. Paul, MN 55101 Tel: (651)286-8450 • Fax: (651)286-8488 wsbeng.com	Cartway Road Trail Project For the City of Champlin					WSB Project 01934-230 City Project No. xxxxx					SHEET 7 OF 7
					Plan By: BJP				Trail Cross Sections										
					Checked By: TCH	Timothy C. Hanson PE													
					Approved By: TCH	DATE: XX/XX/XX LIC. NO: 19574	engineeringplanningenvironmentalconstruction												

Minnesota Wetland Conservation Act

Notice of Decision

Item 4a_I

Local Government Unit (LGU) Elm Creek Watershed Management Commission	Address 3235 Fernbrook Ln N, Plymouth, MN 55447
---	---

1. PROJECT INFORMATION

Applicant Name George Gmach	Project Name Gmach Wetland Determination.	Date of Application June 7, 2017	Application Number 2017-026W
<input checked="" type="checkbox"/> Attach site locator map.			

Type of Decision:

<input checked="" type="checkbox"/> Wetland Boundary or Type	<input type="checkbox"/> No-Loss	<input type="checkbox"/> Exemption	<input type="checkbox"/> Sequencing
<input type="checkbox"/> Replacement Plan	<input type="checkbox"/> Banking Plan		

Technical Evaluation Panel Findings and Recommendation (if any):

<input type="checkbox"/> Approve	<input type="checkbox"/> Approve with conditions	<input type="checkbox"/> Deny
----------------------------------	--	-------------------------------

2. LOCAL GOVERNMENT UNIT DECISION

Date of Decision: July 14, 2017		
<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Approved with conditions (include below)	<input type="checkbox"/> Denied

LGU Findings and Conclusions (attach additional sheets as necessary):

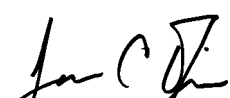
This site is located at 22600 Oakdale Drive (PID 0511923130002) Corcoran MN (Rogers post office). The parcel is 37 acres in size, but only the southerly most 5.6 acres are being evaluated for wetlands at this time. The 5.6 acre site was evaluated in the field for potential wetlands by Kjolhaug Environmental Services on April 27, 2017. An aerial review for offsite hydrology determination was done on one area located within the farmed portion of the property being examined. This was reviewed according to the BWSR (2010) protocol. No wetlands were identified on the property from the field or aerial reviews.

Based on the LGU review of the delineation, we concur with the determination by Kjolhaug Environmental Services that no wetlands are present on the evaluated 5.6 acre area and hereby approve the wetland delineation.

Wetlands may not be impacted until all applicable conditions have been met!

LGU Authorized Signature:

Item 4a_I

Signing and mailing of this completed form to the appropriate recipients in accordance with 8420.0255, Subp. 5 provides notice that a decision was made by the LGU under the Wetland Conservation Act as specified above. If additional details on the decision exist, they have been provided to the landowner and are available from the LGU upon request.		
Name James C Kujawa	Title Technical Advisor to the LGU	
Signature 	Date July 14, 2017	Phone Number and E-mail 612-348-7338 James.Kujawa@hennepin.us

THIS DECISION ONLY APPLIES TO THE MINNESOTA WETLAND CONSERVATION ACT.

Additional approvals or permits from local, state, and federal agencies may be required. Check with all appropriate authorities before commencing work in or near wetlands.

Applicants proceed at their own risk if work authorized by this decision is started before the time period for appeal (30 days) has expired. If this decision is reversed or revised under appeal, the applicant may be responsible for restoring or replacing all wetland impacts.

This decision is valid for three years from the date of decision unless a longer period is advised by the TEP and specified in this notice of decision.

3. APPEAL OF THIS DECISION

Pursuant to MN Rule 8420.0905, any appeal of this decision can only be commenced by mailing a petition for appeal, including applicable fee, within thirty (30) calendar days of the date of the mailing of this Notice to the following as indicated:

Check one:

<input checked="" type="checkbox"/> Appeal of an LGU staff decision. Send petition and \$0 fee (if applicable) to: Elm Creek Watershed Management Commission 3235 Fernbrook Ln N Plymouth, MN 55447	<input type="checkbox"/> Appeal of LGU governing body decision. Send petition and \$500 filing fee to: Executive Director Minnesota Board of Water and Soil Resources 520 Lafayette Road North St. Paul, MN 55155
--	---

4. LIST OF ADDRESSEES

<input checked="" type="checkbox"/> SWCD TEP member: (email only) Stacey. Lijewski@co.hennepin.mn.us
<input checked="" type="checkbox"/> BWSR TEP member: (email only) Ben Meyer (ben.meyer@state.mn.us).
<input type="checkbox"/> LGU TEP member (if different than LGU Contact):
<input type="checkbox"/> DNR TEP member: Kate Drewry: kate.drewry@state.mn.us
<input checked="" type="checkbox"/> DNR Regional Office (email only) Becky.Horton@state.mn.us
<input type="checkbox"/> WD or WMO (if applicable):
<input checked="" type="checkbox"/> Applicant and Landowner (email only) George Gmach, George.gmach@icloud.com
<input checked="" type="checkbox"/> City of Corcoran: Brad Marten bmartens@ci.corcoran.mn.us
<input checked="" type="checkbox"/> Members of the public who requested notice (notice only) Andrew Krinke, Kjolhaug Env Services andrew@kjolhaugenv.com
<input checked="" type="checkbox"/> Corps of Engineers Project Manager (notice only) Melissa.M.Jenny@usace.army.mil
<input type="checkbox"/> BWSR Wetland Bank Coordinator (wetland bank plan applications only)

6. ATTACHMENTS

In addition to the site locator map, list any other attachments:
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>



WCA Wetland Bank Scoping Review

TEP Findings & Recommendations

Item 4a_an

Sponsor's Name Chris Rains			
Project Name/Number (if applicable) Fehn Meadows 2nd Addition Wetland Bank (EC #2017-028W)			
County Hennepin	Township Name City of Corcoran	Section No. 3	Township No. 119N R23W
Sponsor's Relationship to Property <input checked="" type="checkbox"/> Fee Title Owner <input type="checkbox"/> Contract for Deed Owner <input type="checkbox"/> Contract or Agreement with Landowner <input type="checkbox"/> Other: _____			

Local Government Unit (LGU) Name Elm Creek Watershed Management Commission	LGU TEP Representative James C Kujawa
SWCD TEP Member (if different from above) Stacey Lijewski	
BWSR TEP Member Ben Meyer	

- ☒ Yes ☐ No Has adequate information been provided in the scoping document submittal to facilitate a meaningful review? If no, describe what additional information is necessary.
- ☒ Yes ☐ No Have one or more members of the TEP reviewed the site in the field? If yes, identify date(s) of field review:
July 6, 2017
- Based on the information provided, describe the TEP's opinion in regard to the suitability of the site and/or project to generate eligible wetland banking credits.

Based on the current conditions, the northerly wetland complex (delineated wetlands 5 and 6 and surrounding area) is already meeting the hydrology requirements and should continue to do so with the permanent disabling and control of the drainage system. The proposal is to connect the north basin (wetlands 5 and 6) to wetland 4 by excavating a saddle that currently separates the areas. This should accomplish the desired effects. Soils, if not already hydric will develop as hydric. This area is naturally depressional.

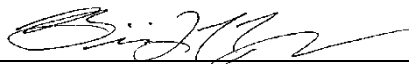
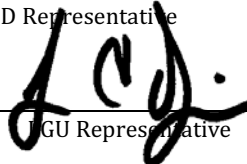
The south basin area (wetland 7) should revert to the heritage hydrology once the drain tiles are disabled and a water control system is established. Soils, if not already hydric will develop as hydric. This area is also naturally depressional.

The natural isolation of the wetlands should provide easier vegetation management options.
- Describe any potential issues/problems with the site and/or project (e.g. conflicting easements, detrimental effects on neighboring properties, erosive areas, conflicting surrounding land uses, etc.).
 - 1) Water controls must be established to eliminate saturation into the adjacent parcels. Elevations appear to accommodate this naturally, but will have to be verified.
 - 2) Future development and road layout design appears to accommodate these wetland basins well. Contiguous buffer and open areas might be squeezed to less than desirable widths where the roadway will be placed. This placement is to minimize existing wetland impacts and provide access to the south half of the development. The more acceptable road placement would encroach into the neighbor in the middle of this site. He is not favorable to any encroachment.

3) Wetland credits might be less than the ACOE desires. Based on the site constraints, the natural pot-hole (depressional) layout and the development pressures, the LGU feels this site is designed to maximize wetland diversity and banking credits and the development necessary to accommodate a reasonable large lot, cluster development that preserves and enhances the natural resources of the parcel. Item 4a_an

5. Describe any recommendations to the landowner/project sponsor in regard to developing a good bank plan associated with the identified project site.

The LGU encourages this type of banking plan in the Elm Creek Watershed and Hennepin County.

SWCD Representative	(Date)		7/14/2017
		BWSR Representative	(Date)
	July 11, 2017	DNR Representative (if applicable)	(Date)
LGU Representative	(Date)		

If TEP recommendation is not unanimous, note dissenting votes with an asterisk and explain. Provide additional TEP comments and recommendations on a separate sheet and attach to this finding of fact form.

Minnesota Wetland Conservation Act

Notice of Decision

Item 4a_as

Local Government Unit (LGU) Elm Creek Watershed Management Commission	Address 3235 Fernbrook Ln N, Plymouth, MN 55447
---	---

1. PROJECT INFORMATION

Applicant Name Jeff Schalo	Project Name Schalo-21105 CR 10 Corcoran exemption.	Date of Application July 28, 2017	Application Number 2017-033W
<input checked="" type="checkbox"/> Attach site locator map.			

Type of Decision:

<input type="checkbox"/> Wetland Boundary or Type	<input checked="" type="checkbox"/> No-Loss	<input checked="" type="checkbox"/> Exemption	<input type="checkbox"/> Sequencing
<input type="checkbox"/> Replacement Plan	<input type="checkbox"/> Banking Plan		

Technical Evaluation Panel Findings and Recommendation (if any):

<input type="checkbox"/> Approve	<input type="checkbox"/> Approve with conditions	<input type="checkbox"/> Deny
----------------------------------	--	-------------------------------

2. LOCAL GOVERNMENT UNIT DECISION

Date of Decision: August 3, 2017		
<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Approved with conditions (include below)	<input type="checkbox"/> Denied

LGU Findings and Conclusions (attach additional sheets as necessary):

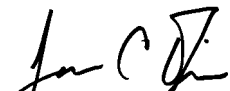
Applicant requests 1) ditch maintenance and 2)<1,000 sq. ft. of wetland fill for cover over non-perforated tile. (see attached aerial and plan information)

Ditch Maintenance: Site inspection confirmed historic tile and culvert elevations with $\pm 6''$ water over inverts. Cattle impacts to the ditch were evident. Additionally, historic photos show continuous ditch presence and maintenance activities for 40+ years. Applicant wishes to clean out 6'-1.0' of vegetation and silt build-up in the ditch. Grades will match existing tile and culvert inverts. Spoil will be placed on the side of the ditch until dry and then spread over upland areas. Project is consistent with WCA Rule 8420.0420 Subpart 3 Drainage B.(2) *impacts resulting from maintenance or repair of existing drainage systems other than public drainage systems, when the maintenance or repair does not drain wetlands that have existed for more than 25 years.*

De Minimis: Applicant proposes to install non-perforated tile to a) have a consistent pond elevation and b) extend an existing tile through pasture area to existing ditch. Impacts will result from mounding of material over non-perforated tile to obtain cover. Total actual length of non-perforated tile in wetland areas = 150' on pond tile and 260' for non-perforated tile extension to ditch. Impacts = 410' x 2' (average width of mound over tile) = 820 sq. ft.

Wetlands may not be impacted until all applicable conditions have been met!

LGU Authorized Signature:

Signing and mailing of this completed form to the appropriate recipients in accordance with 8420.0255, Subp. 5 provides notice that a decision was made by the LGU under the Wetland Conservation Act as specified above. If additional details on the decision exist, they have been provided to the landowner and are available from the LGU upon request.		
Name James C Kujawa	Title Technical Advisor to the LGU	
Signature 	Date August 3, 2017	Phone Number and E-mail 612-348-7338 James.Kujawa@hennepin.us

THIS DECISION ONLY APPLIES TO THE MINNESOTA WETLAND CONSERVATION ACT.

Additional approvals or permits from local, state, and federal agencies may be required. Check with all appropriate authorities before commencing work in or near wetlands.

Applicants proceed at their own risk if work authorized by this decision is started before the time period for appeal (30 days) has expired. If this decision is reversed or revised under appeal, the applicant may be responsible for restoring or replacing all wetland impacts.

This decision is valid for three years from the date of decision unless a longer period is advised by the TEP and specified in this notice of decision.

3. APPEAL OF THIS DECISION

Pursuant to MN Rule 8420.0905, any appeal of this decision can only be commenced by mailing a petition for appeal, including applicable fee, within thirty (30) calendar days of the date of the mailing of this Notice to the following as indicated:

Check one:

<input checked="" type="checkbox"/> Appeal of an LGU staff decision. Send petition and \$0 fee (if applicable) to: Elm Creek Watershed Management Commission 3235 Fernbrook Ln N Plymouth, MN 55447	<input type="checkbox"/> Appeal of LGU governing body decision. Send petition and \$500 filing fee to: Executive Director Minnesota Board of Water and Soil Resources 520 Lafayette Road North St. Paul, MN 55155
--	---

4. LIST OF ADDRESSEES

<input checked="" type="checkbox"/> SWCD TEP member: (email only) Stacey. Lijewski@co.hennepin.mn.us <input checked="" type="checkbox"/> BWSR TEP member: (email only) Ben Meyer (ben.meyer@state.mn.us). <input type="checkbox"/> LGU TEP member (if different than LGU Contact): <input type="checkbox"/> DNR TEP member: <input checked="" type="checkbox"/> DNR Regional Office (email only) Becky.Horton@state.mn.us <input type="checkbox"/> WD or WMO (if applicable): <input checked="" type="checkbox"/> Applicant and Landowner Jeff Schalo, 21105 CR10, Corcoran, MN 55340 <input checked="" type="checkbox"/> City of Corcoran: Brad Marten bmartens@ci.corcoran.mn.us <input checked="" type="checkbox"/> Members of the public who requested notice (notice only) <input checked="" type="checkbox"/> Corps of Engineers Project Manager (notice only) Melissa.M.Jenny@usace.army.mil <input type="checkbox"/> BWSR Wetland Bank Coordinator (wetland bank plan applications only)
--

6. ATTACHMENTS

In addition to the site locator map, list any other attachments: <input checked="" type="checkbox"/> Location <input checked="" type="checkbox"/> Aerial Site Map <input type="checkbox"/>



BUDGET WITH FRESHWATER SOCIETY IN MIND

Freshwater Society works closely with many Minnesota watershed organizations to protect and conserve the quality and quantity of our freshwater resources. Our most prominent alliance is through the Master Water Stewards program, which supports 195 citizen volunteers whose on-the-ground projects are infiltrating two million gallons of stormwater each year.

As you plan your budget for the coming year, consider these ways to partner with Freshwater Society:

MASTER WATER STEWARDS

Now entering its sixth year, we continue to enhance training for citizen volunteers, who work on a neighborhood scale to advance your watershed's goals. Tuition is \$2,500 per candidate and we recommend providing cost-share funds for their capstone projects.

SPONSORSHIP OPPORTUNITIES

Freshwater Society hosts several well-attended education events each year. Your financial sponsorship supports high-caliber speakers and helps us distribute the most current science and policy information, to advance our collective knowledge on watershed management and freshwater resources. Sponsorship levels start at \$500.

Road Salt Symposium This annual event brings together municipal and maintenance staff, decision-makers, watershed organization staff, and private salt applicators to learn about cutting-edge practices that reduce salt use.

MOOS Lecture Series We host two lectures each year (fall/spring) featuring national experts who address current hot topics that advance local knowledge of water resource policies and best practices.

State of Water Conference This bi-annual conference attracts employees of state and local governments plus a contingent lake association members and nonprofits. It's a showcase of applied research and case studies demonstrating local action to protect our waters.

CONSULTATION SERVICES

Freshwater Society works directly with organizations and groups to facilitate collaborations and create action plans that meet their goals.

Facilitation Services (cost varies) Using proven participatory engagement methods to help you move from conversation to action, our trained facilitators work with you to develop a process that meets the needs of your organization.

Community Leadership for Clean Water (cost varies) We work with lake associations and community groups you select to help them understand opportunities, procedures, and their role in effectively caring for their lakes, rivers, and wetlands.

To discuss these partnership opportunities, please contact Steve Woods at 651-313-5811, swoods@freshwater.org or Leslie Yetka at 651-313-5813, lyetka@freshwater.org.

elm creek

Watershed Management Commission

ADMINISTRATIVE OFFICE
 3235 Fernbrook Lane
 Plymouth, MN 55447
 PH: 763.553.1144
 FAX: 763.553.9326
 E-mail: judie@jass.biz
www.elmcreekwatershed.org

TECHNICAL OFFICE
 Hennepin County, EED
 701 Fourth Avenue South, Suite 700
 Minneapolis, MN 55415
 PH: 612.596.1171
 FAX: 612.348.8532
 E-mail: Jason.Swenson@hennepin.us

July 18, 2017

Dusty Finke
 City Planner
 City of Medina
 2052 County Road 24
 Medina, MN 55340

Dear Mr. Finke:

On April 21, 2017, the Elm Creek Watershed Management Commission (Commission) received a copy of the City of Medina's 2040 Comprehensive Plan for Review and Comment. As part of that document, the City's Surface Water Management Plan is being revised and updated and included in the Comp Plan as Chapter 11.

The Commission only reviewed Chapter 11 of the Comprehensive Plan – Surface Water Management. In general, the Commission finds the document to provide a good overview of surface water management in the City. The Commission offers the following specific comments for the City's consideration:

1. Section 2.1.1 discusses the depth to bedrock throughout the City of Medina. As written, it reads as though the bedrock depth is 650 to 800 feet below the existing ground surface. The Hennepin County geologic atlas actually shows the 650 to 800 feet as being the actual elevation of the bedrock. The actual depth to bedrock is approximately 100 to 400 feet depending on the location in Medina. See the Geologic Atlas Plate C-4 for Hennepin County in the Hennepin County Geologic Atlas.
2. Figure 8 – Medina's DNR Public Water and Wetlands Map should also show the major streams with DNR jurisdiction on the figure for clarity.
3. Section 2.2.4 should have the links to other organizations water quality data checked. The links for Elm Creek and CAMP do not work at this time.
4. Table 2.4 needs to be updated to reflect that the TMDL for Elm Creek and Rush Creek has been approved as of June of 2017.
5. As the TMDL for Elm Creek and Rush Creek has now been formally approved by the EPA, we recommend that the Surface Water Management Plan be checked and updated for any activities listed in the TMDL implementation plan so that no future revisions are required to the plan or the MS4 SWPPP in the near future and specifically states this is the case.
6. Section 3.2 of the Plan refers to Hennepin County's Department of Environmental Services. This language should be replaced with Hennepin County Department of Environment and Energy.
7. Section 3.4.1 (both the first and second instances of this section – see below) of the plan indicates the Hennepin Conservation District provides administrative services. Technical Services are now provided by the Hennepin County Department of Environment and Energy.
8. Section 3.4.1 is used twice in the report – once for Pioneer-Sarah Creek Watershed and again for Elm Creek. Revise the numbering and check it throughout the rest of this section.

9. Section 3.15 needs to be revised to reflect the correct county – Hennepin – and not Ramsey and Washington Counties.
10. Under Section 4.2, it seems like the intent of the listing of TMDL's was to link to various documents. At this time, the links do not exist in the document. Otherwise, it is not clear what this bulleted list is attempting to state.
11. Section 4.2.2 states that the storm distribution for reviews will be the NRCS Type 2. ECWMC rules require the use of the distributions from the Atlas 14 publication (MSE-3).

The Commission appreciates the opportunity to review the 2040 Comprehensive Plan for the City of Medina, and looks forward to seeing the final version of the document and working with the City in the implementation of the plan moving forward.

If you have any further questions, I can be reached at 612-596-1171.

Respectfully,

A handwritten signature in black ink that reads "Jason Swenson". The signature is fluid and cursive, with the first name "Jason" being larger and more prominent than the last name "Swenson".

Jason Swenson, P.E.
Advisor to the Commission

May 26, 2017

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

RE: City of Medina Surface Water Management Plan (SWMP)
Review file No. 21723-1

Dear Ms. Anderson:

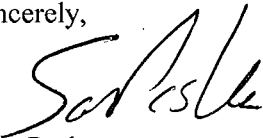
The Metropolitan Council (Council) has completed its review of the City of Medina's Surface Water Management Plan (plan). The plan meets the minimum requirements for a local water management plan and provides an overall framework for the city to manage its water resources, however it could be improved to be more effective.

Specifically, Table 4.1 *Wasteload Allocations for Medina*, lists 12 phosphorus wasteload allocations that have been assigned to the city. The required phosphorus load reductions necessary to meet these allocations total 2,351 pounds per year. This is not an insignificant amount. The city should consider accelerating implementation of the projects identified in Table 6.1 to meet these reductions, and work with the watersheds to identify additional actions to satisfy these wasteload allocations.

Since much of the city is not yet developed, the city should consider adopting the Minnesota Pollution control Agency's Minimal Impact Design Standards (MIDS) and sequencing for future development. More information is available on the MPCA's website.

If you have any questions regarding the Council's expectations, please contact Joe Mulcahy, at 651-602-1104. After the city adopts its surface water management plan, a final copy should be forwarded to the Council for our records along with the dates the watershed management organizations approve the plan and when the city adopts the final plan.

Sincerely,



Sam Paske
Assistant General Manager, Environmental Quality Assurance Department

cc: Scott Johnson, City of Medina
Katie Rodriguez, Metropolitan Council District 1
Freya Thamman, Metropolitan Council Sector Representative
Raya Esmacili, Metropolitan Council Referrals Coordinator
Joe Mulcahy, Environmental Analyst

Legal Notice
NOTICE OF PUBLIC HEARING
ELM CREEK WATERSHED MANAGEMENT COMMISSION

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, September 13, 2017, at approximately 11:30 a.m., or as soon thereafter as the matter may be heard, for a public hearing on the following improvement:

Project 2017-01: Fox Creek Streambank Stabilization Project Phase 3

Location: I-94/Hyacinth Drive, Rogers

Description: Correct stream bank erosion and improve stream habitat along 3,000 feet of stream bank.
Cost: Estimated project cost is \$450,000, with \$337,500 borne by City of Rogers and other sources. The Elm Creek Commission proposes to fund a matching \$112,500 by certifying this cost to Hennepin County for collection with the county ad valorem tax levy.

Project 2017-03: Mill Pond Fishery and Habitat Restoration

Location: Mill Pond, Champlin

Description: Remove bed load in Mill Pond, improve depth and winter fish habitat, restore natural stream and lake biota, improve recreational opportunities.
Cost: Estimated project cost is \$5,000,000, with \$4,750,000 borne by City of Champlin and other sources. The Elm Creek Commission proposes to fund a matching \$250,000 by certifying this cost to Hennepin County for collection with the county ad valorem tax levy.

Project 2017-04: Rain Garden at Independence Avenue

Location: Independence and Trussel Avenues, Reynolds Park, Champlin.

Description: Construct infiltration Pond/Rain Garden to treat stormwater from approximately 9 acres before discharging into Elm Creek
Cost: Estimated project cost is \$300,000, with \$225,000 borne by City of Champlin and other sources. The Elm Creek Commission proposes to fund a matching \$75,000 by certifying this cost to Hennepin County for collection with the county ad valorem tax levy.

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

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

/s/ Doug Baines, Chair

By order of the Elm Creek Watershed Management Commission

#

Published between August 14 and August 28, 2016 in the Osseo-Maple Grove Press

Z:\Elm Creek\CIPs\2017 Projects\Legal Notice Hearing_2017 projects.doc