

Riley-Purgatory-Bluff Creek Watershed District

Board of Managers Regular Meeting

Wednesday, October 3, 2018

7:00pm Regular Board Meeting

DISTRICT OFFICE

18681 Lake Drive East

Chanhassen

Agenda

1. **Call to Order**
2. **7:00 pm Approval of the Agenda (Additions/Corrections/Deletion)** **Action**
3. **Matters of general public interest** **Information**

Welcome to the Board Meeting. Anyone may address the Board on any matter of interest in the watershed. Speakers will be acknowledged by the President; please come to the podium, state your name and address for the record. Please limit your comments to no more than three minutes. Additional comments may be submitted in writing. Generally, the Board of Managers will not take official action on items discussed at this time, but may refer the matter to staff for a future report or direct that the matter be scheduled on a future agenda.

4. **Reading and approval of minutes** **Action**
Board of Manager Meeting, September 5, 2018
Public Hearing and Special Meeting, September 17, 2018

5. **Consent Agenda**
(The consent agenda is considered as one item of business. It consists of routine administrative items or items not requiring discussion. Any manager may remove an item from the consent agenda for action.)

- a. Accept August Staff Report
- b. Accept August Engineer's Report (with attached Inspection Report)
- c. Pay App #1 Chanhassen High School
- d. Pay App #1 Lake Susan Park Pond
- e. Pay App #4 Purgatory Creek at 101 Restoration
- f. Pay App #3 Scenic Heights Restoration
- g. Solicit bids for Bluff Creek Tributary Project
- h. Accept Purgatory Creek at 101 Stabilization Project close out memo
- i. Approve purchase of YSI sonde for data collection

6. **Citizen Advisory Committee** **Information**

7. Action Items

Action

- a. Accept August Treasurer's Report
- b. Approve Paying of the Bills
- c. LSWMP City of Deephaven
- d. Duck Lake Subwatershed Analysis Task Order
- e. Prairie East 5th Association - Cost Share

8. Discussion Items

Information

- a. Saville West Update
- b. Upcoming November Board Meeting:
 - i. Cooperative Agreements with the City of Eden Prairie (Lower Riley Creek)
 - ii. Permit Workshop (fee, financial assurances and delegation of authority - action item for the December board meeting)

9. Upcoming Events

Information

- Cycle the Creek, September 29, 10am, 18681 Lake Drive East, Chanhassen
- Citizen Advisory Committee monthly meeting, October 15, 6:00 pm, 18681 Lake Drive East, Chanhassen.
- Technical Advisory Committee, October 24, 11-1, 18681 Lake Drive East, Chanhassen
- Community Clean-up for Water Quality, October 27, 9:30-12, multiple areas in Chanhassen, www.ci.chanhassen.mn.us/cleanup
- Budget Workshop (Permitting Process), November 7, 5:30pm, 18681 Lake Drive East, Chanhassen.
- Regular Board Meeting, November 7, 7:00 pm, 18681 Lake Drive East, Chanhassen
- Minnesota Association of Watershed District Annual Meeting, November 29 - December 1, Alexandria, MN
- Regular Board Meeting, December 5, 2018, 7:00pm, 18681 Lake Drive East, Chanhassen

MEETING MINUTES

Riley-Purgatory-Bluff Creek Watershed District

September 5, 2018, Board of Managers Governance Workshop and Monthly Meeting

PRESENT:

Managers: Jill Crafton, Treasurer

Larry Koch

Dorothy Pedersen, Vice President

Dick Ward, President

David Ziegler, Secretary

Staff: Claire Bleser, District Administrator

Terry Jeffery, Project and Permit Manager

Joshua Maxwell, Water Resources Coordinator

Louis Smith, Attorney (Smith Partners)

Scott Sobiech, Engineer (Barr Engineering Company)

Maya Swope, RPBCWD Staff

Other attendees: Tom Bakritges, Homestead Partners*

Peder Larson, Larkin Hoffman*

Joe Bischoff, Wenck Partners*

Mark Nordland, Level 7*

Paul Bulger, CAC

Steve Sabraski, Landform*

Chris Call, Landform

Laurie Susla, LLCA

Mary Davy, No Stress Gardening and Landscape*

*Indicates attendance at Monthly Meeting only

1. Budget Workshop

1 President Ward called to order the Wednesday, September 5, 2018, Board of Managers Governance Workshop at
2 5:30 p.m. at the District Office, 18681 Lake Drive East, Chanhassen, MN 55317.

3 Attorney Smith highlighted the topics that he would cover with the Board during this workshop, including
4 reviewing the legal authority of watershed districts, an overview of the Minnesota Watershed Law, the Minnesota
5 Watershed Act of 1955 the Metro Surface Water Management Act of 1982, Watershed District purposes, the
6 RPBCWD's powers and tools, the Open Meeting Law, the Data Practices Act, the RPBCWD's Bylaws, conflicts
7 of interest, and Governance Handbook.

8 He provided an overview of the Minnesota Watershed Act of 1955, which created a new special purpose unit of
9 government as the regulatory authority for land use/water and to finance water resource improvements. This unit
10 of government, the water management organization, is formed by petition and has an independent citizen board.
11 Attorney Smith stated that the 1982 Metropolitan Surface Water Management Planning Act required seven
12 counties in the Twin Cities metropolitan area to be part of a water management organization – either a watershed
13 district or a watershed organization. He described the differences between watershed districts and watershed
14 management organizations. Attorney Smith pointed out that the 1982 Metropolitan Surface Water Management
15 Planning Act also required the water management organizations to have 10-year plans.

16 Attorney Smith went through a list of purposes of the watershed district, for example under the category of
17 protection one of the purposes is to control/alleviate damage from flood waters. Attorney Smith also explained for
18 the Board the legal powers given to the Watershed District. He talked about the organization's budget and levies
19 and annual timelines. Attorney Smith went through the watershed management tools including capital projects,
20 regulation, and education and programs.

21 Attorney Smith talked about the RPBCWD's governance. He went into detail about the Open Meeting Law and
22 defined a meeting as "...any gathering of a quorum or more members of a governing body, committee, or
23 subcommittee...where members discuss, decide, or receive information as a group...about the official business of
24 that body." Attorney Smith described the sanctions for violating the Open Meeting Law.

25 Attorney Smith provided information about the District's permit program and deadlines for the Board in making
26 permit decisions.

27 He briefly reviewed the District's Governance Manual Table of Contents. He specifically addressed the
28 RPBCWD's Bylaws regarding Conflict of Interest. Attorney Smith ended the workshop talking about the State
29 Auditor's Legal Compliance Audit Guidelines.

30 Manager Pedersen moved to close the Governance Workshop. Manager Ziegler seconded the motion. Upon a
31 vote, the motion carried 5-0. The workshop adjourned at 7:05 p.m.

2. Call to Order

32 Manager Ward called to order the Wednesday, September 5, 2018, Board of Managers Monthly Meeting at 7:12
33 p.m. at the District Office, 18681 Lake Drive East, Chanhassen, MN 55317.

3. Approval of the Agenda

34 President Ward added agenda item 8q –KTJ315 LLC ABRA Autobody and agenda item 8r -Personnel.

35 Manager Pedersen moved to approve the agenda as amended. Manager Ziegler seconded the motion. Upon a vote,
36 the motion carried 5-0.

4. Matters of General Public Interest

37 President Ward explained the procedure for raising matters of general public interest and opened the floor.

38 Ms. Mary Davy of No Stress Gardening and Landscape said she was there on behalf of the Prairie East
39 Homeowners Association. She said that the Prairie East HOA submitted a cost-share grant application. Ms. Davy
40 said her company introduced the HOA to the RPBCWD and suggested the HOA submit that cost-share
41 application. She said that her company did not make that suggestion because there was money to be had but
42 because it was an opportunity for the District to get to know a large land owner in the watershed who that is an
43 uncommonly good water and land steward. Ms. Davy pointed out that the Board discussed the complex cost-share
44 application but did not invite the HOA or herself to come speak to the Board about the application. Ms. Davy said
45 that at this point the HOA is 90 days into the application with no end in sight. Ms. Davy said that the applicants
46 have been left with the feeling that they are unwelcome and that the project is untenable. She said that she doesn't
47 care if the District funds the cost-share project or doesn't, but the applicant deserves better from this Board and
48 organization. Ms. Davy said that cost-share applicants should be informed of when their cost-share application is
49 on the meeting agenda so they could participate. She asked the Board to reconsider the cost-share application

50 because it is an extremely good project that was well-considered, studied for months, shopped, and is cutting-edge
51 irrigation.

52 Laurie Susla of 7008 Dakota Avenue, Chanhassen, said she had a few questions and comments about the
53 proposed 2019 budget. She asked if there are going to be meeting minutes from the Budget Workshop that the
54 public will be able to review prior to the Board’s meeting on September 17th. The Board directed staff to post the
55 draft minutes from the August 27 Budget Workshop on the District’s website. Ms. Susla said the District has
56 \$6,000,000 in the bank right now. She asked if at the Budget Workshop the Board talked about the money that the
57 District has in the bank before the Board decides to raise the levy for the next year. Ms. Susla asked if there is a
58 place in the budget procedure where the Board goes through and sees the different classifications of the balances
59 including the classifications of non-spendable, restricted, committed, assigned, and unassigned. She said that if
60 the Board did this, the Board would know how much of that \$6,000,000 is available for offsetting any increases in
61 budget. Ms. Susla asked when the proposed budget will be available to the public. Administrator Bleser said she
62 will post the PDF of the proposed 2019 budget spreadsheet on the District’s website.

63 Mr. Paul Bulger, CAC President and resident at 15807 Southlawn Road, Eden Prairie, commented on the high
64 quality of the reports in the meeting packet and said they do a nice job of including the results of the Creek
65 Restoration Action Strategy and the Lake Management Decision Tree. He said that for permit applications in the
66 cases that the District has requested more information from the applicant, the line of reasoning has been clear and
67 the District has provided ample time to respond. Mr. Bulger said he applauds the District and Administration for
68 having increased transparency and documentation.

5. Reading and Approval of Minutes

a. August 8, 2018, RPBCWD Board of Managers Monthly Meeting and Public Hearing

69 Manager Crafton noted a correction on page 6, item h, paragraph 3 to replace the word “application” with
70 “applicant.” She also noted that on page 6, item I, paragraph 3 the word “it” should be deleted so the
71 sentence reads “... that as this application...” Manager Pedersen asked for the deletion of the word “so”
72 on page 2, item 3, second paragraph. Mr. Ziegler noted that on page 3, item 7, in the last sentence the word
73 “that” should be replaced with the word “than.” He also pointed out that on page 6, under item h, in the
74 last paragraph the date September 4 should be revised to read September 14.
75

76 Manager Crafton moved to accept the minutes as amended. Manager Ziegler seconded the motion. Upon a
77 vote, the motion carried 5-0. Manager Koch requested line numbers be added to the future meeting
78 minutes and asked that questions and answers be reflected in the minutes.

6. Consent Agenda

79 President Ward read aloud the Consent Agenda items: 6a – Accept August Staff Report; and, 6b – Accept August
80 Engineer’s Report (with Attached Inspection Report).

81 Manager Pedersen moved to approve the August Staff Report. Manager Ziegler seconded the motion. Upon a
82 vote, the motion carried 5-0.

83 Manager Ziegler moved to accept the August Engineer’s Report. Manager Crafton seconded the motion. Upon a
84 vote, the motion carried 5-0.

7. Citizen Advisory Committee (CAC)

86 Mr. Paul Bulger, CAC President, reported that at its last meeting the CAC passed two motions. He said that the
87 first motion was to recommend approval of the cost-share application. He described the second motion, which
88 was administrative action. Mr. Bulger highlighted other business discussed by the CAC at its meeting. He said
89 that the CAC talked about the Silver Lake Watershed adopt-a-drain pilot program, which will start with 30 storm
90 drains. Mr. Bulger said that at its next meeting the CAC will discuss the State Fair booth. Manager Koch asked if
91 the CAC reviewed the District's proposed 2019 budget. Mr. Bulger said that the CAC had a presentation by
92 District staff about the proposed budget. He said that the major projects in the proposed budget are incorporated
93 into the District's 10-year plan and given the fact that the CAC was actively involved in the 10-year plan process
94 and coupled with the decision process that has been made more robust with the 10-year plan, there was no active
95 discussion about the projects. Mr. Bulger reported that proposed changes regarding increased number of staff and
96 changes for administrative and office costs were not questioned by the CAC.

97 Manager Pedersen thanked Mr. Bulger for stepping in to the CAC president role for the remainder of the year.

8. Action Items

a. Accept July Treasurer's Report

98 Treasurer Crafton communicated that she and the Administrator have reviewed the report in accordance
99 with the District's internal controls and procedures. She moved to accept the Treasurer's Report. Manager
100 Ziegler seconded the motion. Upon a vote, the motion carried 5-0.

b. Approve Paying of Bills

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103 Manager Crafton moved to pay the bills. Manager Ziegler seconded the motion. Upon a vote, the motion
104 carried 5-0.

c. Accept Bid and Award Contract for Rice Marsh Lake Alum Project (Bid Opening on September 4th) and Accept Bid and Award Contract for Lotus Lake Alum Project (Bid Opening on September 4th)

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107 President Ward announced that Accepting the Bid and Awarding the Contract for the Rice Marsh Lake
108 Project and Accepting the Bid and Awarding the Contract for the Lotus Lake Alum Project will need to
109 be acted on in the same motion. Administrator Bleser explained that both projects address internal loading
110 of phosphorous and both projects are identified in the District's 10-year plan. She pointed out that the
111 bidding process was combined for the two projects.

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113 Joe Bischoff of Wenck Associates provided a summary of the bidding process and the results. He
114 explained that the District received two bids, and he provided details on the bids received. Mr. Bischoff
115 explained that the bid from HAB Aquatic Solutions was less than the Engineer's project estimate. Mr.
116 Bischoff also pointed out that HAB Aquatic Solutions has experience with applying alum treatments in
117 Minnesota whereas the other company that submitted the bid did not. Mr. Bischoff recommended that the
118 Board accept the bid from HAB Aquatic Solutions to do the alum treatments on Rice Marsh Lake and
119 Lotus Lake.

120 Manager Koch asked if the bids were within the amount that the District budgeted for the projects. Staff
121 responded yes. Manager Pedersen asked if Mr. Bischoff has used HAB Aquatic Solutions in the past for
122 alum treatments. Mr. Bischoff responded yes.

123 Manager Pedersen moved to accept the bid from and award the contract to HAB and Associates for the
124 Rice Marsh Lake and Lotus Lake Alum Projects.
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126 **d. Authorize a Request for Bids for Bluff Creek Tributary**

127 Administrator Bleser explained the need for stabilizing this area of the creek. She reported that the
128 District and the City of Chanhassen have been going back and forth working on the Cooperative
129 Agreement, which is almost finalized. Administrator Bleser said that the District is waiting for
130 confirmation from the City about when the Agreement is going in front of the City Council.

131 Engineer Sobiech reminded the Board that the project entails approximately 1500 square feet of
132 streambank stabilization. He reported that the project design is complete, specifications are nearly
133 complete, and Legal Counsel is working on the front-end documents. Engineer Sobiech stated that the
134 Engineer's Opinion of Cost for the project is \$259,000, which is higher than the \$200,000 estimated in
135 the feasibility study but is within the range of accuracy.

136 Engineer Sobiech said that staff is seeking authorization from the Board to go out for bids for this project,
137 but staff recommends not to go out for bids until the City of Chanhassen signs the Cooperative
138 Agreement.

139 Manager Koch asked if the City of Chanhassen is providing funds for this project. Administrator Bleser
140 responded \$50,000. Administrator Bleser noted that the District's proposed 2019 budget included \$50,000
141 for this project. Manager Koch asked when the project would start. Engineer Sobiech said that the
142 schedule is tentative right now since the Cooperative Agreement isn't executed, but he said the project
143 would start this year and extend into 2019. Staff described possible actions that the Board could take on
144 this item.

145 Manager Ziegler moved to authorize staff to go out for bids for the Bluff Creek Tributary project as soon
146 as the project's Cooperative Agreement is signed. Manager Koch seconded the motion. Attorney Smith
147 recommended that the Board take action to direct staff to keep working with the City of Chanhassen on
148 the Cooperative Agreement and when it is finalized to go out for bids. Managers Ziegler and Koch
149 accepted the friendly amendment to the motion. Upon a vote, the motion carried 5-0.

150 **e. Authorize a Request for Bids for Lower Riley Creek**

151 Administrator Bleser explained that the City of Eden Prairie's legal counsel is reviewing the Cooperative
152 Agreement for this project. She recommended that the Board take the same action on this item as it did
153 with the previous item for the Bluff Creek Tributary project.

154 Attorney Smith clarified that staff just realized that the Board has not taken action to approve submitting
155 the Cooperative Agreement for this project or for the Bluff Creek Tributary project to the cities. He
156 recommended the Board reconsider its action on the previous item. Manager Koch moved to amend the
157 motion on the Bluff Creek Tributary project so that the motion is contingent on the Board's approval of
158 the Cooperative Agreement. There was discussion. Manager Koch withdrew his motion.

159 Manager Koch moved to reconsider the Board's previous action. Manager Ziegler seconded the motion.
160 Upon a vote, the motion carried 5-0.

161 Manager Ziegler moved to defer action on items 8e and 8f until the Board's meeting on September 17.
162 Manager Koch seconded the motion. Upon a vote, the motion carried 5-0.
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164 **f. Deny One-Year Extension Request for Conditionally Approved Permit 2015-036 – Saville West in**
165 **Minnetonka**

166 Mr. Jeffery noted that this permit was originally approved in 2015. He talked about the history of the
167 permit and the communications that the District has had with the permit holder. Mr. Jeffery explained that
168 what the Board is considering tonight is a modification to the language to the Board's motion granting a
169 60-day extension. He said that the modification is to grant the permit holder until October 2, 2018, to
170 comply with the District's conditions and if the conditions are not met by October 2, 2018, the permit
171 request extension is denied by the District.

172 Manager Ziegler moved to deny the one-year extension and upon staff's recommendation give the permit
173 holder until October 2 to meet the conditions as described by staff and in the draft letter. Mr. Jeffery noted
174 that as noted in the draft letter the permit holder has until September 21 to supply the materials to the
175 District. Manager Pedersen seconded the motion. Upon a vote, the motion carried 5-0.

176 **g. Approve Assignment of Pentom Land Company Conditionally Approved Permit 2017-007**
177 **Cedarcrest Stables to HP Holding, LLC with Staff Recommendations**

178 President Ward noted that he is good family friends with the owner of Pentom but doesn't have any
179 knowledge of this Board item and there is no conflict of interest.

180 Mr. Jeffery said that this action is to assign the permit from Pentom Land Company to HP Holding, LLC
181 with the conditions attached to the permit. Manager Koch asked if documentation of the conditions should
182 be required or what information legal counsel might require to verify the actual transfers of the property
183 to keep the District is apprised of the transfer. Attorney Smith said that the District's posture has typically
184 been that it does not review the land transactions. Attorney Smith noted that the District reviews permits
185 and has been asked to approve a permit transfer.

186 Manager Pedersen asked if the District's rules have changed since the time the permit was issued and if
187 so, would HP Holding, LLC be required to meet the new rules. Mr. Jeffery said yes, there have been
188 changes but the rule changes don't go into effect until January 1, 2019.

189 Manager Ziegler moved to approve the assignment of Pentom Land Company Permit 2017-007 to HP
190 Holding, LLC with staff recommendations. Manager Pedersen seconded the motion. Upon a vote, the
191 motion carried 5-0.

192 **h. Consider Permit 2018-016 Avienda Variance Request and Conditional Approval with Staff**
193 **Recommendations**

194 Engineer Sobiech said this permit application is for the development of a multi-use property in
195 Chanhassen south of Lyman Boulevard and west of Powers Boulevard. He noted that there are 10
196 wetlands on the property. He explained that the applicant is looking for approval of phase 1, which
197 involves construction of the public infrastructure including the roadways, the water main, the storm
198 sewer, and the sanitary sewer as well as some of the storm water management facilities.

199 Engineer Sobiech, using PowerPoint slides, gave an overview of the project site, the locations of the
200 wetlands, and locations of permanent BMPs. He went through in detail the Engineer's review of the
201 permit application. Engineer Sobiech stated that the applicant is looking for a variance from the rule for
202 compensatory storage plus or minus one foot on the same water resource. He talked further about the
203 wetlands on the site and buffers and which wetlands are going to be filled. He described each of the
204 Engineer's conditions to the permit and pointed out that the financial assurance is \$3,875,600.

205 Engineer Sobiech recommended approval of the variance with the conditions as detailed by the Engineer.

206 He stated that if the Board approves the variance, the Engineer recommends approval of the permit based
207 on the conditions as explained by the Engineer.

208 Manager Pedersen asked if the Board has ever approved a permit that has filled in these many acres of
209 wetland. Engineer Sobiech said that since the time that the District reinstated its regulatory program the
210 Board has not. Manager Pedersen asked if the Board would be setting a precedent by approving this
211 permit. Engineer Sobiech pointed out that the land use decision is the authority of the City of Chanhassen.
212 Manager Pedersen responded that for a body that represents water conservation this goes against every
213 grain of what she is sitting on the Board for and this project is not what she stands for.

214 Manager Ziegler moved to approve the variance request based on the conditions as presented by the
215 Engineer. Manager Crafton seconded the motion. Upon a vote, the motion carried 4-1 [Manager Pedersen
216 voted against the motion.]

217 Manager Ziegler moved to approve permit 2018-016 based on the conditions listed by the Engineer.
218 Manager Crafton seconded the motion. Manager Ziegler made a friendly amendment to add that the
219 permit applicant must submit as-built drawings to Engineer Sobiech. Manager Crafton agreed to the
220 friendly amendment. Upon a vote, the motion carried 4-1 [Manager Pedersen voted against the motion.]

221 **i. Consider Permit 2018-028 Oak Point Elementary Parking Lot Conditional Approval with Staff**
222 **Recommendations**

223 Engineer Sobiech described the project and went through the Engineer's review of the permit application.
224 He talked about the proposed underground infiltration system. He commented that all the requirements of
225 the rules are met with the exception of providing the name of who is responsible for providing erosion
226 control on the site. He noted that one of the conditions of permit approval is that the applicant needs to
227 enter into an agreement with the District for ongoing maintenance of the buffer.

228 Manager Ziegler moved to approve permit 2018-028 Oak Point Elementary Parking Lot with staff's
229 recommendations and the applicant must submit as-built drawings demonstrating at the time of final
230 submittal that storm water facilities conform to design specifications as approved by the District. Manager
231 Crafton seconded the motion. Manager Pedersen pointed out that the watershed is losing half of an acre of
232 pervious surface with this project and she is disturbed by the trend. Upon a vote, the motion carried 5-0.

233 **j. Approve Change Order for Lake Susan Park Pond (No Fund Transfers at this time)**

234 Administrator Bleser explained that for this project there has been extensive back and forth with the
235 contractor Peterson Company. She said that the amount time put into this back and forth communication
236 has exceeded the amount estimated. Attorney Smith pointed out that the requested action is to amend the
237 Task Order and this action is not for a construction change order.

238 Manager Ziegler asked if the District can charge Peterson Company for these costs. Attorney Smith
239 responded that on August 17, 2018, the District sent a letter to the contractor putting the contractor on
240 notice that the District reserves the right for liquidated damages for the delays and costs that have
241 occurred. Engineer Sobiech clarified that Peterson Company is the contractor for the Lake Susan Park
242 Pond project and the Chanhassen High School Reuse project. He explained that the contractor is within
243 the construction timeline for the Lake Susan Park pond project but for the Chanhassen High School
244 project the contractor was supposed to have the project finished by August 7. There was discussion on
245 whether the District has cause for liquidated damages.

246 Manager Koch asked if the District's Engineer charges the District for the time the Engineer spends
247 working on the Task Order items or if the District pays the Engineer the lump sum amount budgeted in

248 the Task Order. Engineer Sobiech responded that the task orders are typically constructed as Not-to-
249 Exceed amounts and not lump sum amounts. He explained that if Barr Engineering is working on a task
250 order with a not-to-exceed budget of \$25,000 and Barr Engineering Company spends \$20,000 worth of
251 time on it, then the District is only charged \$20,000. There was discussion about the reason why
252 additional time has been spent on this project and the contractor's role in these extra costs. Engineer
253 Sobiech talked about some of the work that the contractor did without contacting the Engineer and the
254 errors involved in that work. Manager Koch remarked that he thinks that the District should have the
255 contractor pay for these extra costs. President Ward said his opinion is that the Board approve this request
256 to modify the task order to increase the budget and to move forward seeking liquidated damages.
257 Managers Crafton and Pedersen agreed with that course of action.

258 Manager Ziegler moved to authorize to increase the Task Order budget by \$20,000 for the Lake Susan
259 Park Pond treatment and storm water reuse project. Manager Crafton seconded the motion. President
260 Ward added the friendly amendment that the District will pursue liquidated damages from the contractor
261 for the additional costs above the budgeted amount for Barr Engineering's work on the project. Managers
262 Ziegler and Crafton approved the friendly amendment. Upon a vote, the motion carried 5-0.

263 **k. Approve Change Order for Chanhassen High School**

264 Administrator Bleser shared that this project is behind schedule and the task order needs to be amended
265 for additional budget for this task order. Attorney Smith talked about the August 17, 2018, letter from the
266 District sent to Peterson Company. He explained that the letter called attention to Peterson Company's
267 failure to perform and highlighted the District's intent to seek liquidated damages. Administrator Bleser
268 noted that the District has not receive any official communication back from Peterson Company in
269 response to the District's letter.

270 Manager Ziegler moved to approve the change to the Task Order for the Chanhassen High School Storm
271 Water Reuse project to increase the budget by \$15,000 with legal support to try to recoup liquidated
272 damages from the contractor for failure to perform. Manager Crafton seconded the motion. Upon a vote,
273 the motion carried 5-0.

274 **l. Approve Fund Transfers**

275 Administrator Bleser said staff estimates needing \$50,000 in additional funds for the Chanhassen High
276 School Storm Water Re-Use project, including the additional \$15,000 that the Board just approved.

277 Manager Crafton moved to authorize the Administrator to transfer \$50,000 from the District's Reserve
278 Funds to the Chanhassen High School Storm Water Reuse project. Manager Pedersen seconded the
279 motion. Upon a vote, the motion carried 5-0.

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281 **m. Approve Resolution 2018-08 Affirming Acceptance of Responsibility for MN Wetland Conservation**
282 **Act in Shorewood**

283 President Ward read aloud the resolving statements of Resolution 2018-08 Affirming Acceptance of
284 Responsibility for MN Wetland Conservation Act in Shorewood.

285 Manager Pedersen moved to adopt Resolution 2018-08. Manager Crafton seconded the motion. Upon a
286 roll call vote, the motion carried 5-0.

Manager	Aye	Nay	Absent	Abstain
Crafton	X			
Pedersen	X			
Ziegler	X			
Koch	X			
Ward	X			

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n. Authorize Administrator to Enter Agreement with 4M Fund

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Administrator Bleser gave an update on the District’s KleinBank accounts. She reported that the accounts are earning 0% interest. She reminded the Board that it had a presentation on the 4M Fund at a previous monthly Board meeting.

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Manager Koch said it is a best management practice to first put in place an investment policy. He said he would like to see a proposal about what and how much the District plans to invest and other such details and for the District’s legal counsel to review to make sure that the investments comply with Minnesota’s strict law that the funds are secure.

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Manager Pedersen noted that whatever action the Board takes with its investments, the Board needs to ensure it offers enough flexibility that the District can finish projects if there are cost increases such as with the projects already discussed this evening. There was a discussion about the Administrator’s authority over the District’s funds. Manager Koch commented that he is not comfortable with the Administrator being granted any additional authority over the funds than the authority already in place.

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Attorney Smith commented that he thinks it is a good practice to adopt an investment policy, which tends to be about security and collateral. He said the other piece to consider is the District’s regular cash flow with its Certificates of Deposit. Attorney Smith said the District can put this process into a policy about the considerations regarding maturity dates and the stacking of the CD. He said the policy would address the Administrator’s authority to manage the CDs. Attorney Smith said the policy would be protective of the Administrator’s decision-making and transparent for the Board about how it all works. Attorney Smith said that if the Board is interested in having a policy to address this and bring back a specific agreement with 4M, staff can bring this to the Board for its October Board meeting. Managers Crafton and Ward remarked that they would be in support of that action. Attorney Smith said that the District’s policies include internal controls and procedures for financial management, which include banking authority and authorizes the Administrator in consultation with the District Treasurer to invest District funds in accordance to MN Statutes Chapter 118A, which prescribes where the District can put funds.

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There was discussion about entering into an agreement with the 4M Fund tonight.

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Manager Pedersen moved to authorize the District Administrator to enter into an agreement on behalf of the District to join the 4M Fund. Manager Crafton seconded the motion. Upon a vote, the motion carried 4-1 [Manager Koch voted against the motion]. President Ward said that there will be a policy for the Board to review at its October meeting.

319 **o. Consider Permit 2018-052 HCRRA Culvert Replacements Variance Request and Conditional**
320 **Approval with Staff Recommendations**

321 Engineer Sobiech stated that the project is to replace two culverts underneath the trail owned by the
322 Hennepin County Regional Railroad Authority. He noted that one crossing is in Deephaven and one
323 crossing is in Minnetonka. Engineer Sobiech went through the Engineer's review of the permit
324 application. He explained that the applicant is requesting a variance from the minimum-width set back
325 because of one of the wetland buffers. He went into detail about the buffer and noted that there is no way
326 for the applicant to extend all the way to the edge of the right-of-way. Engineer Sobiech explained that
327 this variance request ties to the fact that this is an existing trail that was there long before the applicant
328 took over the trail. He pointed out that re-aligning the trail is not practical.

329 Engineer Sobiech said he supports the variance request and recommends approval of the permit.

330 Manager Crafton moved to grant the variance for Permit 2018-052. Manager Pedersen seconded the
331 motion. Upon a vote, the motion carried 5-0.

332 Manager Crafton moved to approve Permit 2018-052 with conditions as recommended by staff. Manager
333 Pedersen seconded the motion. Upon a vote, the motion carried 5-0.

334 **p. Permit 2018-041 KTJ315 LLC / ABRA Auto Body**

335 Mr. Jeffery summarized the permit application review and said staff recommends approval of the permit
336 with the conditions listed in the permit review materials in the meeting packet. Mr. Jeffery added a fifth
337 condition to staff recommendations. He said the fifth condition is to authorize staff to transfer the Permit
338 2018-041 from KTJ315 LLC to ABRA Auto Body upon transfer of the property.

339
340 Manager Ziegler moved to approve Permit 2018-041 with staff recommendations. Manager Koch
341 seconded the motion. Upon a vote, the motion carried 5-0.

342
343 **q. Board Review of Personnel**

344 President Ward reported that a few weeks ago the Board conducted a personnel review of the District
345 Administrator. The Board gave the Administrator a satisfactory rating and a 2% performance increase in
346 salary.
347

9. Discussion Items

348 **a. Upcoming Meetings**

349 Administrator Bleser announced that on September 17 the Board will hold a public hearing and a special
350 meeting with other agenda items. She said that the notice for that hearing and meeting is already posted
351 on the District's website. Manager Pedersen noted that the District is holding a lunch and learn here at the
352 District office on September 14.

10. Upcoming Events

- 353 • Budget Public Hearing, September 17, 6:00 p.m., District Office, 18681 Lake Drive East, Chanhassen
- 354 • Citizen Advisory Committee Meeting, September 17, 6:00 p.m., District Office, 18681 Lake Drive East,
355 Chanhassen

11. Adjourn

356 Manager Koch moved to adjourn the meeting. Manager Crafton seconded the motion. Upon a vote, the motion
357 carried 5-0. The meeting adjourned at 9:28 p.m.

358
359
360
361
362 Respectfully submitted,

363
364
365 _____
David Ziegler, Secretary

MEETING MINUTES

Riley-Purgatory-Bluff Creek Watershed District

September 17, 2018, Board of Managers Budget Public Hearing and Special Meeting

PRESENT:

Managers: Jill Crafton, Treasurer

Larry Koch

Dorothy Pedersen, Vice President

Dick Ward, President

David Ziegler, Secretary

Staff: Claire Bleser, District Administrator

Terry Jeffery, Project and Permit Manager

Louis Smith, Attorney (Smith Partners)

Scott Sobiech, Engineer (Barr Engineering Company)

Maya Swope, RPBCWD

Other attendees: Paul Bulger, CAC

Anne Deuring, CAC

Laurie Susla, CAC

1. Call to Order

President Ward called to order the RPBCWD's Public Hearing and Special Board Meeting at 7:00 p.m. in the District Office, 18681 Lake Drive East, Chanhassen, MN 55317.

2. Approval of the Agenda

Manager Ziegler moved to approve the meeting agenda. Manager Crafton seconded the motion. Upon a vote, the motion carried 5-0.

3. Reading and Approval of the Minutes

a. Minutes of the August 27, 2018, Board of Managers Budget Workshop

Manager Ziegler pointed out that on page 2, third to last paragraph, the meeting time should read "7 p.m." Attorney Smith noted that in the second to the last paragraph, second sentence, the phrase "pursuant to the Board's direction" should be added so the sentence reads, "... and will submit the public notification pursuant to the Board's direction. He said he thought that at the meeting he thought he understood that the Board's direction was to start with the proposed budget that the Administrator offered, and the Board discussed several different changes and from that discussion the Administrator knew what number to publish for the

proposed budget. Attorney Smith noted that the purpose of that proposed budget is to let the public know the scale that the Board is considering as it acts tonight. He said in hindsight it would have been good for the Board to act with a motion to be very clear what that budget number is for the public notice.

Attorney Smith stated that on page 2 in the third to last paragraph in the second line “public hearing” should be replaced with “public informational meeting.”

Manager Pedersen moved to approve the minutes. Manager Ziegler seconded the motion. Manager Koch said that he didn’t think that the Board approved that budget number that was published and that he thought that the Board would be presented with a budget number at the next meeting and that number would go to notice. Upon a vote, the motion carried 4-1 [Manager Koch voted against the motion].

4. Public Hearing on the RPBCWD 2019 Budget and Levy

Administrator Bleser went through the proposed 2019 budget and levy. She explained that the proposed 2019 levy is \$3,602,500 for a proposed 2019 budget of \$6,917,492. Administrator Bleser said that levy equates to \$221 for an \$800,000 home. She said currently for an \$800,000 home the District’s levy equates to a cost of \$210. Administrator Bleser explained that the District has an increase in its tax base for 2019. She said that it will be a tax base of \$255,000,000 based on its boundary changes and she did not factor in this change in the previous calculation of how the proposed 2019 levy would change a taxpayer’s payment from 2018 to 2019 for the \$800,000 household. She noted that for a \$200,000 household the 2019 levy would equate to a \$2 increase.

She went into detail about the Administration budget items and the District-wide projects. She talked about the projects that are categorized in the budget as the Bluff Creek, Riley Creek, and Purgatory Creek projects, pointing out multi-year projects and project partners. Administrator Bleser said that with the calculation of some of the fund carry-overs and the understanding that the Board would authorize a budget transfer from Purgatory Creek, she was able to estimate that the District’s 2019 levy could be \$3,602,500 with a total budget of \$6,917,492.

Manager Koch asked for more details about how the District receives grant funds. Administrator Bleser noted that each grant program has a different process, and she described the processes for submitting work plans. Manager Koch asked if past District levies have included grant funds. Administrator Bleser explained that she tracks those, and they are in a separate document that details what is open in current grants, and how much the District has received, and what are next steps. Manager Koch made recommendations on how the grant funds could be tracked.

Manager Koch noted that the proposed 2019 budget shows anticipated \$25,000 in permit income. He noted that by the end of July 2018 the District has received \$75,000 in permit income. Manager Koch asked what accounts for the additional permit revenues in 2018 and if it could be anticipated to be repeated in 2019. Administrator Bleser said the previous accountant combined permit fees with permit escrows. She said an adjustment needed to be made. Manager Koch asked if \$25,000 is still an appropriate estimate for permit fee income in 2019. Administrator Bleser said it is a safe estimate, but if the economy changes and there could be less permit income than \$25,000.

Manager Koch asked a question about investment income. He noted that the District has received \$17,000 in interest since July 31 but there is no line item in the budget for this income. Manager Koch added that the District has not been receiving interest from its funds in the bank, but should the District plug in a number to the budget for this interest income. President Ward agreed that the District should have this number in the budget. Administrator Bleser said a quick estimate is around \$35,000 for that interest income. President Ward said that number seems about right.

Manager Koch asked about expenditures for Legal Services year to date. He commented that as of July 31 legal services expenditures have been roughly \$25,000. He said that the 2019 budget doesn't assume any carry-over budget for legal services. Manager Koch asked if staff anticipates spending the remaining \$2018 legal services budget this year. Administrator Bleser responded that she forecasts the administrative budget by putting them to zero. She said whatever is left can go to the emergency fund reserve. Manager Koch asked if the estimate of \$35,000 for permit review in 2019 is enough? Administrator Bleser said yes, there will be some funds from the permitting line item and some funds from the cost share. She said yes, they can do something good for \$35,000 and in future years the District will probably do enhancements.

Manager Koch asked how much money the District is allocating for 2019 for staff education. Administrator Bleser responded \$18,000.

Manager Koch commented it would be helpful if staff provides a schedule for each of the multi-year projects that shows here is what we spent, here is what we are levying, and here is what we anticipate spending in future years. He said that he would like to see going forward a sub-budget for line 19, Education and Outreach. Manager Koch said that he is uncomfortable approving that amount of money without detail about the what the components.

Manager Koch had a question about floodplain evaluation and LIDAR surveys. He asked to what extent does the District use LIDAR as a way of saving time and money, so the District doesn't repeat work that has already been done. Engineer Sobiech explained that LIDAR is a technology where a plane flies over an area and uses lasers to detect ground elevation. He said that in this watershed, the LIDAR data is from 2011. Engineer Sobiech explained that the District supplements the LIDAR data with other site-specific survey data to get better accuracy.

President Ward asked about office costs. He said that at the initial budget workshop, the miscellaneous budget was \$14,000. He asked if this is correct. Administrator Bleser said \$14,000 for the year. President Ward said that \$14,000 is too big of a number and that things need to be broken out and described.

Administrator Bleser asked if the Board wants to see in future years the changes that Manager Koch has requested including grant income details, partnership income details, schedules of multi-years projects, further details on multi-year projects, and further details on staff. President Ward said for the purposes of this budget let's leave it the way it is because the Board will need to decide how it wants to break those items out.

President Ward opened the floor to the public for comments.

Ms. Laurie Susla of 7008 Dakota Avenue, Chanhassen, said that at the Board's meeting at the beginning of the month she asked the Board how much of the \$6.1 million that the District has in the bank currently is committed to projects and how that money is classified per the Board's Governance Manual. Ms. Susla remarked that she was told that her question would be answered by the meeting minutes from the Board's August 27th meeting, but it was not. She wanted to know if the Board had taken that extremely large sum that it has in the bank into account as the Board is considering raising the levy. Administrator Bleser responded that the District has approximately \$1.2 million in cash escrow and the rest of the funds are committed. She said the District is waiting for the December distribution for its second half of the year's levy. Administrator Bleser noted that there are approximately \$700,000 in actual reserves. She said work is being done on the District's financial policies and a draft will come to the Board soon. She said that some of the language tied to the District's existing financial policies are from when the District had a general fund. Administrator Bleser said the District no longer has a general fund and work is being done to clarify the District's policy statement. Manager Koch said he believes it is a straight forward matter to provide on the financial statements what is often called a tie-out schedule where the District can tie out its escrows with future commitments and end up with a balance. He said he believes this information should be part of the monthly financial statement. Administrator Bleser said this is prepared annually

as part of the audit. President Ward said this information is something that Redpath could easily report. Manager Koch replied that he would rather see the information monthly or at minimum quarterly.

Ms. Susla commented on the year-end forecasting for the administration portion of the budget. She said if one looks at where the District's budget was at July 31st and then do the math then the District will end the year at approximately \$805,000. She said that when one takes that number and then look at the proposed 2019 budget, it is approximately a 40% budget increase from where the District will end 2018. She asked that when the December public information meeting about the 2019 budget is held that the District fill out the year-end forecast numbers be filled out for the Administration section so one can get a clearer understanding of where the District will approximately end this year. She asked that the Board compare the year-end forecast numbers with the 2019 budget numbers because a 40% increase is a big increase. She asked that the Board look at the 2019 budget in December with a slightly pointier pen. Ms. Susla addressed specific line items that look like they will have funds unspent by year end. Administrator Bleser noted outstanding costs that staff anticipates being expended in 2018.

Ms. Susla commented on the column labeled 2018 year-end forecast. She asked if this column indicates what the District will have left over as opposed to what the District anticipates spending? Ms. Susla recommended that for the December public meeting the forecast should reflect what staff anticipates spending for the year. She commented that she was curious about the cost share budget and the District's plan to carry over \$100,000 and levy another \$100,000. Ms. Susla said she would be very surprised if the District is going to spend \$200,000.

Attorney Smith noted that on the totals sheet, regarding adopting the budget, there is a listed total revenue figure of \$6,917,492 and he thinks that the total expenditures read \$6,892,492. Attorney Smith said he thinks there is a \$25,000 different, and the Board may want to put that \$25,000 in reserves so that the anticipated revenues matches the anticipated expenditures. Administrator Bleser explained that the difference was the assumption that there is not a guarantee that the District will receive \$25,000 from permit fees. Manager Koch suggested adding that \$25,000 to reserves and adding an asterisk noting that \$25,000 is uncertain.

President Ward read aloud the resolving statements of Resolution 2018-09 to adopt the 2019 annual budget in the amount of \$6,917,492. Manager Ziegler moved to adopt the 2019 budget in the amount of \$6,917,492. Manager Crafton seconded the motion. Upon a roll call vote, the motion carried 4-1 [Manager Koch voted against the motion.]

Manager	Aye	Nay	Absent	Abstain
Crafton	X			
Pedersen	X			
Ziegler	X			
Koch		X		
Ward	X			

President Ward read aloud the resolving statements of Resolution 2018-10 to adopt the 2019 Metropolitan Surface Water Management Act Levy in the amount of \$3,602,500.

Manager Crafton moved to adopt Resolution 2018-10 to adopt the 2019 Metropolitan Surface Water Management Act Levy for the RPBCWD. Manager Pedersen seconded the motion.

Manager	Aye	Nay	Absent	Abstain
Crafton	X			
Pedersen	X			
Ziegler	X			
Koch		X		
Ward	X			

President Ward announced that the District will hold a public informational meeting about the 2019 budget and levy on December 5, 2018, at 7 p.m.

5. Action Items

a. **Cost-Share: Approve Paul Shoreline Restoration**

Administrator Bleser reported that Mr. Jeffery presented this cost-share application to the CAC and that the applicant has work for several years to put this project together. Mr. Jeffery provided background on this cost-share application and the property. He described the proposed project, which includes removing concrete wall along the shoreline and an 8-foot wide concrete ramp, which will be replaced with a sand blanket. Mr. Jeffery said that the rest of the shoreline would have rip rap and plantings. He noted that the CAC was concerned about the planting plan. Mr. Jeffery said the planting plan has been revised and now includes all native plants. He stated that staff and the CAC recommend approval of this cost share at an amount not to exceed \$3,000.

The managers discussed the project.

Manager Pederson moved to approve the cost-share grant not to exceed \$3,000 with the permitting needs as determined by staff and with staff recommendations. Manager Crafton seconded the motion. Upon a vote, the motion carried 5-0.

b. **Approve Cooperative Agreement with Chanhassen – Bluff Creek Tributary**

Administrator Bleser announced that this document has been reviewed and approved by staff and it is her understanding that the City will be acting on this Cooperative Agreement next Monday, September 24.

Manager Koch moved to approve the Cooperative Agreement with Chanhassen for the Bluff Creek Tributary and authorize the Administrator and Legal Counsel to make non-substantive changes as they deem necessary.

Manager Ziegler seconded the motion.

Upon a vote, the motion carried 5-0.

6. Lower Riley Creek Corridor Enhancement Plan

Administrator Bleser reported that the enhancement plan will be tied to a cooperative agreement. She noted that the District, the City of Eden Prairie, and the Lower Minnesota River Watershed District have been working on this plan. She said the document is a living document that can be updated in the future. She said staff's goal is to get the cooperative agreement to the Board for its next monthly meeting.

7. Upcoming Events

- Cycle the Creek, September 29, 10:00 a.m., District Office, 18681 Lake Drive East, Chanhassen
- Regular Board Meeting, October 3, 5:30 p.m. 18681 Lake Drive East, Chanhassen

8. Adjourn

Manager Crafton moved to adjourn the meeting. Manger Pederson seconded the motion. Upon a vote, the motion carried 5-0. The meeting adjourned at 8:37 p.m.

Respectfully submitted,

David Ziegler, Secretary

RPBCWD Staff Report

September 25, 2018

Administrative

50th Anniversary Celebration: Come explore with us!

Winter: Lake Ann Winter Festival, Snow shoeing family event

Spring: Get out and explore, walking challenge

Summer: Celebrating our community, Lake Riley Jacques Barn

Fall: Half Century Bike Ride

December: Discover our community through your lens (Annual communication will include photos from photo contest engaging our community to capture the beauty of our natural resources). This will wrap up our 50th anniversary.



Through our new website, photo contestant will be able to submit their photos online.

Aquatic Invasive Species

No new update

Annual Report

No Updates

Budget

Levy and budgets were sent to both counties. Next meeting will be at our December meeting.

Data Requests and Research Extension

A resident requested methods to control phragmites around a stormwater pond in Chanhassen and was given info on phragmites, Chanhassen contacts, and District cost share opportunities.

Grants

Final grant reporting is on its final draft and staff anticipate submittal to Metropolitan Council by mid-October.

Administrator Bleser met with BWSR Conservationist, Steve Christopher to discuss elink requirements for our upcoming grants.

Administrator Bleser has submitted the elink workplan. The workplan includes three projects: Hennepin County Chloride Collaborative, Minnesota River Cost-Share Winter Efficiency Grant, Carver County - Wetland Restoration at 101.

Citizens Advisory Committee

September meeting

CAC members attended the lunch and learn with the TAC in regards to the City of Woodbury Water Conservation Program. Staff Jeffery and Staff Swope attended the CAC meeting in September.

Technical Advisory Committee

Next TAC meeting is scheduled for October 24th to discuss water conservation opportunities and partnerships as well as developing higher resolution H and H models.

Programs and Projects

District-Wide

Cost-share program

Residential

No new updates

HOA

The District received communication in regards to Prairie East 5th Association on September 4th. Please find it at the end of the staff report.

Government

No new updates

Regulatory Program (T. Jeffery)

Permitting

Three (3) applications were submitted to the District's online permitting system since the September 5, 2018 Board Meeting. Two of the three are for construction of a new home on an existing single family lot of record. The third permit is for the maintenance of an outfall into McCoy Lake. It does not involve work within a public water as all activities occur above the OHW elevation for McCoy Lake. It does not trigger Rule C - Erosion Prevention and Sediment Control as there is less than 5,000 square feet of disturbance and under 50 cubic yards of material. However, it does involve land-disturbing activity below the 100-year flood elevation and, therefore, triggers Rule B - Floodplain Management and Drainage Alterations. This will be before the Board at the November meeting. Staff will be bringing forward potential permitted

activities where it would be more efficient and pose minimal risk to delegate authority to the Administrator. This activity would be among those suggested at the November work session.

PERMIT #	ADDRESS	PROJECT DESCRIPTION
2018-057	Centerpoint Easement - Minnetonka	Carver ILI - Inspection of existing CenterPoint Energy natural gas line with the potential to pothole if the probe detects issues. There is no additional impervious surface to be added and no impervious surface to be reconstructed.
2018-058	9108 Stephens Pointe, Eden Prairie	Construction of a new single family home and rain garden.

In addition to the above mentioned applications and permits, LakeWest Development, LLC did submit a revised plan and the excess cost recovery fee. This submittal was received on September 25, 2018. Staff has yet to review the revised submittal but the items appear to be consistent with the conditions of approval for the requested one-year permit extension.

Discussions with SEH, and Three Rivers Park District regarding Three River Parks planned parking and drive aisle improvements in Hyland Park have continued. The project is in both Nine Mile Creek Watershed District and Riley Purgatory Bluff Creek Watershed District. The two Districts will need to enter into a Joint Powers Agreement. RPBCWD will handle the permitting.



Staff met with the City of Eden Prairie and their consulting engineer on September 17th to discuss future road reconstruction of Duck Lake Road.

The project, as currently proposed, would rely on school property to treat runoff from Prairie View Elementary School and a small portion of the road. A significant portion would only be treated for large solids with the use of sump manholes or similar practice. These would not address smaller sediment particles, phosphorus removal, or abstraction. The project also proposes trails on both sides of the road, resulting in significant floodplain fill and some wetland impacts.

In this meeting, and prior meetings, staff recommended the use of a boardwalk, similar to the one near Chanhassen High School and crossing Nine Mile Creek and floodplain wetlands near Edina High School as well as other areas, to minimize wetland impacts and eliminate fill within the floodplain. Eden Prairie is hesitant as they contend it cannot be maintained in the winter.

Rules Update

The revised rules went into effect on October 1, 2018.

Wetland Conservation Act Administration

The City of Shorewood City Council passed a resolution on August 27, 2018 delegating responsibility for administration of the Wetland Conservation Act (WCA) to RPBCWD. Minnehaha Creek Watershed District has been administering WCA for that portion of Shorewood within RPBCWD since 2007. On September 5, 2018 RPBCWD passed resolution 2018-008 accepting LGU responsibility. On September 13, 2018 MCWD passed resolution 18-090 turning LGU responsibility to RPBCWD. Staff has submitted all resolutions to the Minnesota Board of Soil and Water Resources and RPBCWD has now assumed LGU responsibility. This transfer of responsibility will make it easier for applicants by minimizing the number of agencies involved in regulatory review of a project.

Since assuming WCA responsibility for Deephaven in March, RPBCWD has not had any WCA application. There have been four instances of consulting with land owners about various aspects of WCA.

Minnesota Rules allow for RPBCWD to collect a reasonable fee. Staff will discuss likely costs incurred as a result of these responsibilities and bring suggestions to the managers for consideration at a work session prior to the November meeting with action on the items at the December meeting. Staff will also bring forward proposed changes to the fee schedule and financial assurance schedule on the same schedule.

Stormwater Research (Gulliver)

Administrator Bleser and Council Smith are working with the University of Minnesota.

Data Collection (J. Maxwell)

Rice Marsh Aeration

No new updates. Staff will pulse the unit once a month and remove the aeration stones for cleaning this fall to ensure the lines are clear. Staff submitted information required for the aeration permit for the winter of 2018-2019. Due to the fisheries benefit and carp management plan, staff were able to waive the \$200 aeration fee.

Summer Field Season

Staff conducted one lake and two stream sampling events this past month. Aluminum sulfate treatments took place of Lotus Lake and Rice Marsh Lake. Staff worked with the applicators and Wenck to collect water samples and lake profiles; they also lended equipment to the applicators when needed. Staff conducted additional tests/sampling events on the spent lime unit at Lake Susan this month and are waiting for the results. Limnotech visited the district and reprogrammed the DIY water quality units which, as of now appear to be working well; a deeply buried bug in the programming was causing issues with the radar level sensors prior to reprogramming. Staff will be trained to program the units this winter.

Macroinvertebrates were collected at all major reach water quality sites on Riley Creek this past month. Staff will sample macroinvertebrates on a rotating basis moving forward (creek/year).

Analysis of macroinvertebrates collected can measure the health of water creatures, help diagnose the type of stressors damaging a water body, define management approaches to protect and restore the water's biological communities, and evaluate how effective protection and restoration activities are. Macroinvertebrate scoring could be potentially added to the Creek Restoration Action Strategy (CRAS) in the future.

Common Carp Management

Carp Removed: 1,883 - Lower Purgatory Creek Recreational Area

Staff installed the barrier trap net in Purgatory Creek on May 7th and Eden Prairie staff installed the barrier on May 4th. Staff checked the net and barrier daily and have been coordinating cleaning the barrier with city of Eden Prairie staff. The barrier has been working well this year; we have not received many large rain events and have experienced limited clogging. The trap net was removed in July. The majority of the fish captured this year were removed via backpack electrofishing at the breached berm between Upper Purgatory Creek Recreational Area and Lower Purgatory Creek Recreational Area. Numbers of carp captured and removed dwindled as the main spawning run ended.

Staff received 14 radio tags for tracking common carp this winter. Staff have been sampling for carp in District lakes. One young of the year (YOY) carp has been captured in Lake Ann and one in the Upper Purgatory Creek Recreational Area, but this is of limited concern. Carp capture numbers in the upper purgatory creek recreational area (via electrofishing boat) appear to be lower this year which may be in part to removal efforts this spring. This is based on only a partial sampling regime and could change. Staff will finish up fish sampling early in October (Staring and the Upper Purgatory Creek Recreational Area).

District staff also finished assisting Ninemile Creek Watershed District with fish sampling on Normandale Lake and Lake Cornelia this month.

Creek Restoration Action Strategy

Joshua Maxwell submitted the fourth revised CRAS to the Center for Watershed Protection for publication. Final suggested corrections were sent back from the editor in chief and final approval for publishing was given after minor corrections can be made.

Staff will look at walking parts of Purgatory Creek this fall. Staff and Engineering met to discuss CRAS updates and additional monitoring for 2019 this month. Topics discussed included:

- Additional bank pins installed now and in 2019 at sites that align with upcoming projects (e.g., upper riley)
- Walking 1st order tributaries that haven't been assessed
- Doing the LRAS
- Assessing additional ravine erosion areas
- Using the stream power index (SPI) to identify and assess potential areas of erosions upstream of wetland, creeks, and lakes



-Installing DIY stations

-Use CRAS2 to advance creek stability assessments. TAC suggested District assess potential areas for extended detention to address creek stability concerns rather than require public project to do channel protection as part of the contemplated potential regulatory revisions. Similar to Upper Riley Creek work. Additionally, combine CRAS2 and H&H effort could allow for a larger area assessment.

WOMP Station - Metropolitan Council

Staff visited the WOMP stations twice this month for baseline sample collection. A new monitoring unit was installed by METC on Purgatory Creek off of Pioneer Trail in July. Staff assisted METC staff with macro invertebrate collection at Purgatory Creek.

Education and Outreach (M. Swope)

Volunteer program

Service Learners

Fall service learners have began volunteering with the district in mid-September, assisting with data collection and fish management. A total of 6 service learners will be working with the District this semester.

Adopt a Dock Program

Volunteers have started returning their plates.

Master Water Stewards Program

Five Master Water Stewards have been accepted into the program for this year. Classes begin on October 9th, and a tour of the watershed will take place on October 13th. Last year's cohort of Master Water Stewards have completed their capstone projects and are preparing to graduate from the program on October 16th.

Citizen Advisory Committee

See CAC section above.

Communication Program

Speakers Bureau

No new updates.

Water Resources Report

Lotus Lake and Rice Marsh Lake fact sheets were modified to incorporate project information on the alum treatments that occurred in September. Public events occurred on September 19th (Lotus Lake) and September 26th (Rice Marsh Lake), in which representatives from HAB aquatics and RPBCWD spoke about the treatment and answered questions.

Website & Newsletter

Final content for the website is being generated, and finishing details are being completed to prepare for the website's launch.

Youth Outreach

Earth Day Mini-Grants

No new updates. Applications for 2019 will open late winter of next year.

Staring Outdoor Center

Staff Swope and a volunteer participated in a two-day program at Staring Outdoor Center, leading water quality testing activities for about 120 fourth-grade students from Eden Prairie. Staff will also help in a similar capacity at an upcoming program on October 9th and 10th.

Children's Water Festival

Staff Dickhausen and a volunteer hosted a station at the Metro Children's Water Festival at the State Fairgrounds. They worked with 4th graders from across the Metro region, teaching them about aquatic invasive species and leading them in the AIS Junior Investigator program.

Scenic Heights School Forest Restoration

The nurse stump sign has been finalized, printed, and delivered to the district office. Staff are working to install the sign. The bare-root trees and shrubs that have grown in the gravel bed nursery over the summer months will be planted October 6th in the vegetated swale area around the pond buffer. Local boy scouts and master water steward volunteers will install the trees.

Continuing Education Program

No new updates.

Businesses and Professionals Program

Professional luncheon series

On September 5th, the District hosted a "Lunch and Learn" event on the permitting database developed by Capital Region Watershed District. Staff representatives from other local watershed districts came together to discuss the database and the possibility of using CRWD's model in other districts.

On September 14th, the District hosted a "Lunch and Learn" event on the water conservation program in the City of Woodbury. Kristin Seaman (Environmental Resource Specialist with the city) gave a presentation on the smart irrigation systems they use. About 22 people were in attendance, including members of the board of managers, CAC, TAC, and other local municipal leaders.

Wetland Management

Wetland Inventory

Staff Nyquist has returned to school and is working part time. With service learners currently available five days a week and the waning data collection season, Staff Dickhausen will be able to contribute more time to wetland assessments. Currently 45 wetlands have been assessed. Staff

Jeffery is working on a way to import into Microsoft Access version of MNRAM. The Board of Soil and Water Resources no longer supports MNRAM.

Wetland Conservation Act Administration

RPBCWD is now the LGU responsible for administration of the Wetland Conservation Act in Deephaven and that portion of Shorewood within the District Boundaries. Thus far, one no-loss determination was made for Deephaven. In addition, four resident contacts have been made in Deephaven. No WCA activities have occurred within Shorewood.

Both Staff Jeffery and Staff Dickhausen will need to complete required wetland training hours to maintain current Wetland Delineator Certifications. They attended a sedge identification class and will attend the wetland session offered at the MN Water Resources Conference.

Bluff Creek One Water

Chanhassen High School

Administrator Bleser communicated with Peterson Company in regards to the delay with the project. Peterson and the Project Team met on September 26, 2018 to discuss project status. Peterson Company is working with the District and has guaranteed to be substantially complete with the Project by October 10th.

Bluff Creek Tributary Restoration

Cooperative agreement for Bluff Creek Tributary Project was approved by the City of Chanhassen. Administrator Bleser is asking the Board to go out for bids.

Riley Creek One Water

Lake Susan Park Pond

Administrator Bleser, Project Team and Peterson Company met on September 26, 2018 to go over the project timeline. An updated substantial construction timeline was provided. Project should be substantially completed by October 15th.

Riley Creek

The City of Eden Prairie is working with Wheeler (Bridge Contractor) to get construction specs. This is taking a little bit longer than anticipated and thus are delaying us in the agreement and bidding timeline. Staff is recommending that we delaying approval of the agreement and bidding until we have the specs for the bridge. At this point, the start of this project will most likely delayed to start to Fall 2019 and going out for bids start of the year.

Rice Marsh Lake Alum

The alum treatment on Rice Marsh Lake was completed on September 26th. The



treatment began on the 24th. Over 80 fact sheets were taken on the trail and 15 were in attendance at the demonstration on the 26th.

Purgatory Creek One Water

Duck Lake Subwatershed

Administrator Bleser and District Engineer have been working on a Task Order for the project and have included it in the board packet this month as an action item.

Fire Station 2

Close out of this project is anticipated to be in October.

Lotus Lake Alum

The Lotus Lake Alum took a little bit longer than anticipated due to the poor weather. Treatment began on September 17th and ended on the 22nd. Three community members came to the demonstration. Close to 60 fact sheets were taken from the boat landing.

Purgatory Creek at 101

We are closing at the project at 101.

Scenic Heights School Forest

On October 6th, Scenic Heights community members as well as master water stewards will be coming together to plant shrubs and trees in the restoration area.

Professional Workgroups and Continuing Education

Staff Dickhausen, Jeffery and Bleser will be attending the Water Resources Conference. This year, the WRC also includes a wetland track.

The Conference will cover:

- lessons learned from the implementation of engineering projects
- best practices discovered in the design and application of water resource management techniques
- implications of water policy decisions
- research into current and emerging issues.

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing September 2018 Activities for October 3, 2018, Board Meeting
Date: September 27, 2018

The purpose of this memorandum is to provide the Riley-Purgatory-Bluff Creek Watershed District (RPBCWD) Board of Managers and the District Administrator with a summary of the activities performed by Barr Engineering Co., serving in the role of District Engineer, during September 2018.

General Services

- a. Participated in the September 5th permit database lunch and learn to discuss potential RPBCWD regulatory program database and how other watershed district manage their regulatory program.
- b. Participated in an September 12th meeting with Administrator Bleser, President Ward, and Counsel Smith to discuss upcoming Board meeting agenda items for September 17th and October 3rd meetings, status of district's 2018 capital projects, cooperative agreement for Bluff Creek, and status of construction projects.
- c. Met with Administrator Bleser on September 20th to discuss Silver Lake assessment project, potential DNR grant, and change order for Lake Susan Park Pond reuse project.
- d. Met with Permit Coordinator Jeffery to discuss potential items to request delegation of approvals from Board, financial assurance adjustments, and fees schedule adjustment.
- e. Met with Peterson Construction on September 26th to discuss noncompliance with completion date for Chanhassen High School Reuse project and anticipated noncompliance with Lake Susan Park Pond Water Quality and Reuse completion date. Had several follow-up conversations with District counsel and Administrator Bleser to assist in developing a second written letter.
- f. Met with Administrator Bleser on September 21st to discuss draft Duck Lake subwatershed assessment task order. A second meeting about Elink grant administration included a BWSR representative.
- g. Participated in the September 5th regular Board of Managers meeting.
- h. Prepared Engineer's Report for engineering services performed during September 2018.
- i. Attended the September 17th RPBCWD budget public hearing and board meeting.
- j. Miscellaneous discussions and coordination with Administrator Bleser about 2019 budgeting, task order status, 2019 CIPs, Duck Lake task order, and upcoming Board meeting agenda..

Permitting Program

- a. *Permit 2017-007: Cedarcrest Stables:* This project involves construction of a 17-lot single family home subdivision in Eden Prairie. The project was conditionally approved at June 7, 2017 Board meeting. Worked with Permit Coordinator Jeffery to review proposed changes to the stormwater management on the site, which would require a permit modifications. Responded to applicant's September 18th submittal from modifications on September 19th.
- b. *Permit 2017-047: Fawn Hill:* This project involves construction of a 10-lot single family home subdivision. A bio-filtration basin and using an existing stormwater detention pond with filtration bench will provide storm water quantity, volume and quality control and was approved. The applicant submitted a permit modification request on September 21, 2018 because the infiltration basin on the site is not performing as originally designed. It is proposed to convert the infiltration basin to a bio-filtration basin. The underlying soil will scarified and loosened to improve the infiltration performance of the soils. Provided review comments to applicant on September 26, 2018 and discuss comments with applicant's engineer.
- c. *Permit 2018-016: Avienda:* This project involves a mixed-use regional development in the southwest quadrant of the intersection of Lyman Boulevard and Powers Boulevard in Chanhassen Minnesota. The project will trigger the RPBCWD Floodplain, Erosion Control, Wetland and Creek Buffer and Stormwater Management Rules. The applicant is proposing an initial construction phase to include mass grading and construction of all public infrastructure. Notified the applicant of conditional approval at the September 5, 2018 regular meeting.
- d. *Permit 2018-028 Oak Point Elementary Parking Lot:* This project involves construction of a new parking lot and walkway in the southwest portion of the Oak Point Elementary School parcel on Staring Lake Parkway in Eden Prairie. The project will trigger the RPBCWD Erosion Control, Wetland and Creek Buffers, and Stormwater Management Rules. Notified the applicant of conditional approval at the September 5, 2018 regular meeting.
- e. *2018-052 HCRRA Culvert Replacement:* The project proposes to replace two failing culverts that convey flow from drainage swales (watercourse) under the Minnetonka LRT Regional Trail between Vine Hill road and County Road 101 in Deephaven to a wetlands. There are two downgradient wetlands onsite. A 24-inch steel and 36-inch reinforced concrete pipe (RCP) are being replaced with 24 & 36-inch RCPs. Notified the applicant of conditional approval at the September 5, 2018 regular meeting. Worked with applicant to address conditions of approval and answer question about wetland buffer signage.
- f. Performed erosion control inspections of active sites during the week of September 17th (see attached inspection report).
- g. Met with City of Eden Prairie, Bolton & Menk, and Permit Coordinator Jeffery to discuss the city's proposed reconstruction of Duck Lake Road relative to RPBCWD regulatory program. The project will require approval under RPBCWD's Floodplain, Erosion & Sediment Control, Creek and Wetland Buffer, Dredging, Shoreline & Streambank Stabilization, Waterbody Crossing, and Stormwater Management rules. The project is proposing to reconstruct the

roadway, fill a portion of Duck Lake to facilitate the reconstruction of the roadway and addition of a walking trail, replacing the culvert under Duck Lake Road, and construct a stormwater management facility in cooperation with the adjacent elementary school.

- h. Met with City of Eden Prairie, SRF, and Permit Coordinator Jeffery to discuss the city's proposed reconstruction of Preserve Boulevard relative to RPBCWD regulatory program. The project will require approval under RPBCWD's Floodplain, Erosion & Sediment Control, Creek and Wetland Buffer, Waterbody Crossing, and Stormwater Management rules. The project is proposing to reconstruct the roadway, and install a pumped outlet from Eden Lake to Neil Lake wetland.
- i. Miscellaneous conversations with Permit Coordinator Jeffery about technical questions on permit requirements for potential development and redevelopment projects.

Data Management/Sampling/Equipment Assistance

- a. Uploaded and verified six laboratory reports from RMB into database.
- b. Investigate missing RMB lab reports and compare RMB completed reports

Task Order 6: WOMP Station Monitoring

Purgatory Creek Monitoring Station at Pioneer Trail

- a. Training with MCES staff on new monitoring equipment.
- b. Help MCES staff with storm sampling.
- c. Setup Loggernet software to communicate remotely with new equipment.
- d. File management – organize lab submission forms.
- e. Download and review data.

Purgatory Creek Monitoring Station at Valley View Rd

- a. Download and review data.
- b. Maintenance - troubleshoot auto-sampler power issue.
- c. Storm event sampling – set station, collect, prep, and deliver sample to MCES lab.
- d. Review and approve MCES lab invoice.
- e. Review rating curve.
- f. File management - organize lab submission forms.

Task Order 7b: Purgatory Creek Stabilization near Hwy 101—Construction

- a. Contractor installed cedar trees at the construction entrance to improve screening and discourage foot traffic in the restoration area.
- b. Final payment application, with remaining retainage, was submitted.
- c. Project closeout documents are included with the meeting packet.
- d. Project is complete and will be removed from future engineer's reports.

Task Order 13b: Lake Susan Watershed Treatment and Stormwater Reuse Enhancements Design and Construction Administration

- a. Review submittals from Peterson Companies and compare against construction plans and specifications. Eight (8) submittals were reviewed in September: six (6) original submittals and two (2) resubmittals.
- b. Construction oversight based on when work is being conducted at the project site and numerous coordination calls with Peterson Companies (Peterson) and the City of Chanhassen.
- c. Construction administration tasks including submittal management, coordination with engineers for approval of submittals, and construction observation notes and photo review.
- d. Coordination of, preparation for, and attendance of the September 26, 2018 meeting with RPBCWD, Peterson, and Barr staff to discuss project delays and schedule, including discussion with RPBCWD legal counsel.



Photo of Riley Creek bank stabilization at Lake Susan Park Pond outlet



Photo of the water treatment shelter, partially constructed

Task Order 14b: Lower Riley Creek Final Design

- a. Continued working with the City of Eden Prairie on the cooperative agreement.

- b. Continued working with the City of Eden Prairie to finalize bridge plans to be included in the construction documents.
- c. Worked on permit application materials for the RPBCWD permit
- d. Submitted permit applications to the DNR and Corps of Engineers.

Task Order 19: Chanhassen High School Stormwater Reuse Design

- a. Coordination with Magellan Pipeline Company, Peterson, and ISD112 regarding the encroachment agreement in relation to the placement of the low voltage communication line in the gas pipeline easement.
- b. Continued construction oversight based on when work is being conducted at the project site and numerous coordination calls with Peterson and ISD112 staff.
- c. Follow-up with Peterson regarding schedule and WaterTronics delivery dates.
- d. Coordination of, preparation for, and attendance of the September 26, 2018 meeting with RPBCWD, Peterson, and Barr staff to discuss project delays and schedule, including discussion with RPBCWD legal counsel
- e. Follow-up with Arteka (the Chanhassen High School Irrigation system maintenance contractor) regarding revisions to the irrigation zones, the connections to the existing irrigation control system, and winterization schedule.



Photo of the water treatment shelter, partially constructed

Task Order 21B: Bluff Creek Stabilization Project

- a. Continued working with the City on a final Cooperative agreement.

Task Order 23: Scenic Heights School Forest Restoration

- a. Native seeding has been delayed due to wet weather over the last several weeks. Portions of the site that appear thoroughly cleared of woody invasives will be seeded this fall with the remainder of the site seeded in the spring of 2019 following the first few management visits.
- b. A volunteer planting event is scheduled for Saturday, October 8th to install the bare root plants that have been growing in the gravel bed tree nursery this summer. Master Water

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Steward and Boy Scout volunteers will be on hand to plant the native shrubs and trees into the pond buffer.

Task Order 24: Preliminary Engineering Study for Silver Lake Water Quality Treatment Project

- a. Barr staff will update the draft feasibility study to incorporate comments when they are provided by District staff.

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From: Dave Melmer
Subject: September 17, 2018—Erosion Inspection
Date: September 27, 2018
Project: 23/27-0053.14 PRMT 9016

Barr staff has inspected construction sites in the Riley Purgatory Bluff Creek Watershed District for conformance to erosion and sediment control policies. Listed below are construction projects and the improvement needed for effective erosion control. The sites were inspected from September 18, 2018.

Site Inspections

2015-010	Children's Learning Adventure - Private - Commercial/Industrial Northwest Corner of Highway 5 and Galpin Avenue Chanhassen, Minnesota 55317 United States Area near SW overflow (riprap) is vegetated and site is stable. All temporary BMP's have been removed with exception of-inlet protection observed at catch basin on Galpin-- SE corner on site side(photo). Wetland and Do Not Mow signage has been installed near NW ponds. (September ,2018)	2018-09-18
2015-016	Blossom Hill - Private - Residential 10841 Blossom Rd Eden Prairie, Minnesota 55347 United States House construction at several site continues. BMP's look good. Minor tracking to street observed. Additional silt fences installed at two house sites.	2018-09-17
2015-035	LaMettry's Chanhassen - Private - Commercial/Industrial Audubon RD and Motorplex CT Chanhassen, Minnesota 55317 United States Construction complete. Site is stable. Three inlet protections still in place. Site is stable. Site representative was notified and will have catch basin protection removed.	2018-09-18
2015-036	Saville West Subdivision - Private - Residential 5325 County Road 101 Minnetonka, Minnesota 55345 United States Construction complete at 5320 Spring Ln. House site-heavy equipment onsite for excavation. Silt fence perimeter control in place. BMP's look good. Landscaping not complete -lot has been graded for sod or seeding. Silt fence installed on southwest and west side of development. Additional lot has silt fence perimeter	2018-09-18

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control installed- no activity at this lot. Lots to south have been brushed/cleared. (September -2018)

2015-050	Arbor Glen Chanhassen - Private - Residential 9170 GREAT PLAINS BLVD Chanhassen, Minnesota 55317 United States Perimeter control (silt fence) installed. Heavy equipment onsite and earthwork/grading complete. Roadway and detention pond installed. All slopes have been stabilized and covered. Rock entrances being installed. BMP's look good. Construction at first two sites underway. BMP's for this location are good.	2018-09-17
2015-056	Oster Property - Private - Residential 9008 & 9010 Riley Lake Road Eden Prairie, Minnesota 55347 United States Construction complete. Silt fences /bio-logs have been removed. Vegetation mats and wood chips have been installed. All other BMP's look good. Landscaping completed. Vegetation established. All temporary BMP's have been removed. Site is stable. This will be last field inspection for this permit.	2018-09-17
2015-058	Prairie Center Clinic Addition - Private - Commercial/Industrial 8455 Flying Cloud Drive Eden Prairie, Minnesota 55344 United States All temporary BMP's have been removed. Site is stable. This will be last field inspection for this permit.	2018-09-17
2016-004	Round Lake Park Improvements - Government - Other 16700 Valley Road Eden Prairie, Minnesota 55344 United States BMP's look good. Site construction complete. Vegetation is established. All temporary BMP's have been removed with exception of BMP's at infiltration areas-silt fences. Infiltration basins vegetation is established. Basin silt fences can be removed. Site is stable. (September -2018) Site representative was contacted about silt fence removal.	2018-09-18
2016-013	Eden Prairie Schools Parking Expansion - Government - Other 8100 School Road Eden Prairie, Minnesota 55344 United States Construction complete. All temporary BMP's have been removed. Site is stable. This will be last field inspection for this permit.	2018-09-17
2016-015	18321 Heathcote Lane - Existing Single-Family 18321 Heathcote LN Deephaven , Minnesota 55391 United States	2018-09-17

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All temporary BMP's have been removed. Landscaping complete. Site is stable. This will be last field inspection for this permit.

2016-017 **SWLRT - Government - Other** **2018-09-17**
Varies Eden Prairie, Minnesota 55344 United States
No construction observed to date.

2016-026 **Foxwood Development - Private - Residential** **2018-09-17**
9150 and 9250 Great Plains Blvd Chanhassen, Minnesota
55317 United States
Multiple house construction continues-BMP's look good- silt fences and rock entrances installed/ good perimeter control. Silt fences have been installed on unsold lots. Catch basin protection has been installed. Additional silt fences have been installed across site. Some tracking to streets. Site is swept regularly. Site conditions are good. (September-2018)

2016-030 **IDI Distribution Building Expansion - Private -** **2018-09-18**
Commercial/Industrial
8303 Audubon Road Chanhassen, Minnesota 55317 United
States
Parking on north side installed/curb and gutter installed and paved. Building addition complete. Landscaping complete. Site is stable. All temporary BMP's have been removed except catch basin protection. Site representative was notified about catch basin protection and will have them removed.

2016-032 **CSAH 61 Improvements - Government - Linear** **2018-09-17**
Eden Prairie, Minnesota 55347 United States
Construction continues. Slopes are covered with matting or have been spray tac'd. Area near creek crossing is under construction complete-- BMP's look good. BMP's to date look very good. BMP's are being installed on date of site visit. Bare soils are currently being worked and will be covered.

2016-040 **18995 Minnetonka Blvd - Existing Single-Family** **2018-09-17**
18995 Minnetonka Blvd Deephaven, Minnesota 55391 United
States
Construction complete. Slopes with vegetation mats have growth established. Entire site has been covered with matting and vegetation has established. Driveway installed- some class five near south end of driveway has been graded. Site should be stable next inspection.

2016-041 **Chanhassen West Water Treatment Plant - Government -** **2018-09-18**
Other
2070 Lake Harrison Road Chanhassen, Minnesota 55317
United States

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Silt fences installed on site. Construction complete. Landscaping and seeding complete--all soil covered with matting. BMP's look good. Entrance installed and paved--roadway complete. Vegetation has sprouted. Playground installation on north side underway.

2016-042 **18663 St. Mellion Place--Eden Prairie (Bear Path)** **2018-09-17**

Construction continues. BMP's are good silt fence replaced with bio-logs--bio-logs are overtopping in locations. Site grading and sod installation has occurred on a large portion of site- however a large area is not stable and bare-- susceptible to erosion. Sediment deposits observed at curb side near site. CA is on 7/21/18 inspection with photos. Terry Jeffrey's was notified. No contact information for owner available. Site has been recently graded. Bio-logs still overtopped- no action taken on CA. Terry Jefferys was notified after August inspection. Temporary wetland buffer signage installed.

2016-044 **Dell Rd & Riley Creek Repair Project - Government - Other**
9980 Dell Road Eden Prairie, Minnesota 55347 United States **2018-09-17**

Vegetation was growing appears to have died off. Rip-rap was installed at dirt road edge to control erosion from road. Additional erosion prevention from road needs to be addressed. More rock installed along flow path and silt deposit at beehive catch basin remains. Representative was contacted in September (2017) and is aware of site condition. September-2018. Same conditions exist--additional sediment build up at beehive catch basin. Photo taken during August inspection. Site conditions will not improve until road reconstruction occurs. All temporary BMP's have been removed. Site is partially stable. This will be last field inspection for this permit.

2016-045 **MCES Blue Lake Interceptor Rehab - Government - Linear**
See attached multiple , Minnesota 55354 United States **2018-09-18**

Construction complete. Silt fences installed/bio-logs in place. Bare soils covered with spray-tac. Some vegetation growing--and filling in. Majority of site is stable. (September 2018) Temporary BMP's can be removed.

2017-001 **Kopesky 2nd Addition - Private - Residential**
18340 82nd St Eden Prairie, Minnesota 55347 United States **2018-09-17**

Site has been cleared and perimeter control--silt fence has been installed. Rock entrance installed. Road and storm sewer installation complete. Site grading complete. BMP's are good. Infiltration basins completed. Basin protection with biorolls is adequate--some areas not protected and rolls not staked in. Site representative notified.

2017-003 **18761 Heathcote Dr Building Addition - Existing Single-**
Family
18761 Heathcote Dr Wayzata, Minnesota 55391 United States **2018-09-17**

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House construction complete. Pool installation complete. Landscaping complete--sod and shrubs installed. Temporary BMP's have not been removed (silt fence/ bio-logs). Debris pile onsite. September 2018. Spoke with homeowners-- bio-logs will be removed soon.

2017-011 **Galpin Blvd Watermain Improvements - Government - Linear Galpin Blvd & Lake Harrison Road Chanhassen, Minnesota 55317 United States** **2018-09-18**

Construction complete. Soils were covered with erosion control mats-growth observed to date and stable. Silt fence still installed in one area. (Across from Galpin Blvd. and Harrison Bay Rd.Site is stable. September -2018.

2017-023 **Eden Prairie Assembly of God - Private - Commercial/Industrial 16591 Duck Lake Trail Eden Prairie, Minnesota 55346 United States** **2018-09-18**

Construction continues. Perimeter control silt fence and rock entrance installed. BMP's look good. Site grading in some areas is complete. South area grading underway-- some sediment runoff to grass observed.

2017-024 **Prairie Bluffs Senior Living - Private - Residential 10280 Hennepin Town Rd Eden Prairie, Minnesota 55347 United States** **2018-09-17**

Open CA(s): BMP's look good with exception of two entrance not having protection for tracking. . Street tracking and build up of tracked materials observed along curb --sit side. Site representative was notified. Deadline: 9/30/2018

Construction continues. Perimeter silt fence installed and catch basin protection in place. BMP's look good with exception of two entrance not having protection for tracking. . Street tracking and build up of tracked materials observed along curb --sit side. Site representative was notified.

2017-026 **6135 Ridge Road** **2018-09-18**

Rock entrance is good. Silt fence maintenance has been completed--however -- root cause of erosion ---bare soils covered by sparse weed growth has not been addressed. Bare soils on site and slopes still need to be covered and stabilized-- without coverage soils will continue to erode downslope. Weed growth that is on slopes is helping but still a lot of soil is exposed. CA will stay open for the bare soils/slope is weed coverage but not stable. August-2018. Site representative/homeowner onsite and is aware of issues. Southwest corner has rock retaining landscaping completed. Photos taken --September inspection.

2017-027 **7500 Chanhassen Road - Existing Single-Family 7500 CHANHASSEN RD Chanhassen, Minnesota 55317-8576 United States** **2018-09-18**

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Construction complete. Site has been graded for landscaping and is now completed. Sod installed. Silt fences removed and bio-logs still in place. Driveway installation underway.

2017-029 **Tweet Pediatric Dentistry - Private - Commercial/Industrial** **2018-09-18**
7845 Century Blvd. Chanhassen, Minnesota 55317 United States

Construction complete . BMP's are installed and good. Catch basin protection installed in this area. Infiltration areas installed. Parking lot grading and curb/gutter installation complete. Site has been recently graded and prepped for seeding or sod. Spotty vegetation growth to date. Photos taken.

2017-030 **Elevate - Private - Commercial/Industrial** **2018-09-17**
12900 Technology Drive Eden Prairie, Minnesota 55344 United States

Construction continues. Perimeter control installed. Catch basin protection installed. Some catch basins have bladders installed and drainage will be directed to other basins. BMP's look good.

2017-032 **11193 Bluestem Lane - Government - Other** **2018-09-17**
11193 Bluestem Lane Eden Prairie, Minnesota 55347 United States

Construction complete. All exposed soils on slope are covered and stabilized--vegetation growing--areas where seed did not sprout are observed-- matting is keeping soils stable. Bio-logs installed at toe of slope. Areas observed where vegetation has died off. Site is in good condition. Will monitor thru spring-2019.

2017-034 **Park Road Overlay Chanhassen - Government - Linear** **2018-09-18**
Park Road Chanhassen, Minnesota 554317 United States

Overlay complete. Landscaping complete. Bridge at stream crossing complete. All exposed soils covered. Vegetation growth established. Bio-logs still in place at bridge area. (September - 2018) Bio-logs can be removed.

2017-036 **Minnetonka HS Upper Field Access Road - Government - Other** **2018-09-05**
18301 State Hwy No 7 Minnetonka, Minnesota 55345 United States

All BMP's have been removed. Site is stable. See photos from 9/5/18 inspection. This will be last field inspection for this permit.

2017-037 **The Venue - Private - Commercial/Industrial** **2018-09-18**
525 W 78th St Chanhassen, Minnesota 55317 United States

Security fence installed. BMP's installed. Demolition of existing buildings complete. Construction underway. Additional BMP's installed--catch basin protection in new construction area. Minor tracking offsite. Rock entrance was refreshed.

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2017-038	West Park - Private - Residential 760& 781 Lake Susan Drive 8601 Great Plains Blvd Chanhassen, Minnesota 55317 United States Construction continues. Street installation on north and south side completed. Rock entrance installed on south side and to individual house sites. Perimeter control installed. Catch basin protection reinstalled. BMP's look good. Minor tracking observed on --onsite streets. Landscaping at some sites underway. BMP's look good. (September-2018)	2018-09-17
2017-039	Mission Hill Senior Living - Private - Residential 8600 Grate Plains Boulevard Chanhassen, Minnesota 55317 United States Construction underway. BMP's installed look good. Site perimeter control installed. Catch basin protection installed. Site is in good shape. South swale has been stabilized. Onsite dewatering ponds are adequate. Minor tracking to street.	2018-09-17
2017-047	Fawn Hill - Private - Residential 7240 Galpin Road Chanhassen, Minnesota 55331 United States Earthwork completed/roadway installed. Perimeter silt fence installed and additional silt fences installed where needed. Exposed soils blown with straw and hydroseeded-vegetation has sprouted and is growing. BMP's to date look good- (September - 2018) West pond overflow installed. Homesite lot signage installed-- no house construction to date.	2018-09-18
2017-053	Mastercraft - Private - Commercial/Industrial 17717 State Hwy 7 Minnetonka, Minnesota 55345 United States Construction complete. Inlet protection installed at two catch basins on north side. Landscaping complete. Site is stable. (September -2018). Site representative was notified that catch basin protection can be removed.	2018-09-17
2017-055	Scenic Heights Elementary 2018 Addns - Government - Other 5650 Scenic Heights Drive Minnetonka, Minnesota 55345 United States Construction continues. BMP's installed are good. Site is in good condition. (September -2018)	2018-09-18
2017-056	Covington Rd Culvert Replacement - Government - Linear Covington Road Minnetonka, Minnesota 55345 United States Construction complete. Vegetation matting installed. Wetland buffer signage installed on downstream side of Covington. All temporary BMP's have been removed. Vegetation established and site is stable. Photos taken. This will be last field inspection for this permit.	2018-09-18

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2017-063	Clear Springs Elementary 2018 Gymnasium Addition - Government - Other 5621 County Road #101 Minnetonka, Minnesota 55345 United States Construction continues . BMP's installed. Site is well contained and BMP's are good. (September -2018)	2018-09-18
2017-064	Scenic Heights Elementary School Forest Restoration - Government - Other 5650 Scenic Heights Drive Minnetonka, Minnesota 55345 United States Site has been selectively cleared. Inflow area modified and BMP's installed. Site has been sprayed with a "Round-up" type of vegetation spray and cleared. Restoration continues. September -2018 Photos taken.	2018-09-18
2017-069	Scheels Redevelopment 8301 Flying Cloud Dr. Eden Prairie, Minnesota 55344 United States BMP's installed. Demolition of building underway.	2018-09-17
2017-072	O'Reilly Auto Parts Eden Prairie 8868 AZTEC DRIVE Eden Prairie, Minnesota 55347 United States Site utilities have been located and marked. No construction activity observed to date.	2018-09-17
2017-073	Preserve Village - Private - Residential 9625 Anderson Lakes Pkwy Eden Prairie, Minnesota 55344 United States Construction continues. Security fence installed. BMP's installed. Catch basin protection is adequate. Minor tracking to street. Site is well contained for runoff protection.	2018-09-17
2018-001	Panera - Private - Commercial/Industrial 531 W. 79th Street Chanhassen, Minnesota 55317 United States Security fence installed. Construction trailer onsite. Demolition complete. BMP's installed. Construction continues. Minor tracking to parking lot.	2018-09-18
2018-004	903 Lake Drive Chanhassen - Government - Other 903 Lake Drive Chanhassen, Minnesota 55317 United States Open CA(s): Tracking to street. Rock entrance needs upgrade. No catch basin protection downstream of site entrance. Site representative was notified. Deadline: 9/30/2018	2018-09-18

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2018-021	9810 Sky Lane Private - Residential 9810 sky lane eden prairie, Minnesota 55347 United States Construction continues. BMP's onsite are installed. Corrective Actions from last month have been addressed. Minor tracking to street observed.	2018-09-17
2018-022	Sunrise Park Court Improvement Government - Other 9401 Bloomington Ferry Road Bloomington, Minnesota 55438 United States Construction complete. Temporary BMP's look. Fencing still needs to be installed. All soils covered and some vegetation growth observed.	2018-09-17
2018-024	Kittelson Pool - Existing Single-Family 2165 Wynsong Lane Chanhassen, Minnesota 55317 United States Construction continues. Silt fence installed. BMP's look good. Minor tracking to street.	2018-09-18
2018-025	Magellan Pipeline UCD Dig 8 through 12 No activity observed to date.	2018-09-17
2018-027	MAMAC Private - Commercial/Industrial 8189 Century Boulevard Chanhassen, Minnesota 55317 United States Perimeter control silt fence installed. Temporary BMP's installed. Security fence installed. No construction or earthwork has begun to date.	2018-09-18
2018-028	Oak Point Elementary School Parking Lot - Government - Other 13400 Staring Lake Parkway Eden Prairie, Minnesota 55347 United States No construction observed to date.	2018-09-17
2018-031	Ridgeview Elementary School Mechanical Improvements 9400 Nesbitt Avenue Bloomington, Minnesota 55438 United States Construction appears to be complete--construction trailer is onsite. BMP's observed near construction trailer last month have been removed. Site is stable.	2018-09-17
2018-032	Valley View Road Trail Rehabilitation Government - Other	2018-09-18

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Construction complete. Catch basin protection still installed. Soils have been graded and still need to be seeded and/covered.

2018-033 **Eden Prairie High School Trail and Railroad Crossing** **2018-09-18**
Government - Other

Construction completed. Bare soils have been hydro-seeded. Some growth observed.

2018-034 **Basin 05-11-A Cleanout** **2018-09-18**
Corner of Sequioa and Ginger Eden Prairie, Minnesota 55346
United States

No activity observed to date at pond. Outlet and flow line downstream has been cleaned out. BMP's installed in this area. Vegetation sprouting/growing in matted areas. (September - 2018)

2018-038 **Eden Prairie Senior Living - Private - Residential** **2018-09-17**
8460 Franlo Rd Eden Prairie, Minnesota 55344 United States

Construction continues. Perimeter control installed. BMP's look good. Minor street tracking observed.

2018-039 **Emerson Site Improvments Private - Commercial/Industrial** **2018-09-17**
12001 Technology Drive Eden Prairie, Minnesota 55344
United States

No activity observed to date.

2018-041 **Abra Auto Body Private - Commercial/Industrial** **2018-09-17**
13075 Pioneer Trail Eden Prairie, Minnesota 55347 United
States

No activity observed to date., No activity observed to date.

2018-049 **D'Alessandro Home - Private - Residential** **2018-09-17**

Construction has begun. Perimeter control installed. Bio-logs installed. BMP's to date are good.

2018-052 **HCRRA Culvert Replacement Government - Other** **2018-09-17**

Sites have been surveyed. No other site activity observed.

2018-053 **Roberts Residence - Private - Residential** **2018-09-18**

Trees marked on north side of site. No other activity observed to date.

To: RPBCWD Board of Managers
From: Dave Melmer
Subject: September 17, 2018—Erosion Inspection
Date: September 27, 2018
Page: 12

Please contact me at 952.832-2687 or dmelmer@barr.com if you have questions on the projects listed above or any additional items that need to be addressed for the erosion control inspections.



September 13, 2018

President Dick Ward and Board of Managers
Riley-Purgatory-Bluff Creek Watershed District
18681 Lake Dr E,
Chanhassen, MN 55317

**Re: Chanhassen High School Stormwater Reuse Project – Pay Application #1
Barr Project # 23/27-0053.14-019**

Dear President Ward and Board of Managers:

Enclosed is the Application for Payment #1 from Peterson Companies for work completed through 8/22/2018, on the above-referenced project. Upon your review and approval, please sign three copies and return one copy to me, one copy to the contractor and retain the remaining copy for your files.

Major items of work covered by this pay application include:

- Mobilization,
- A portion of sediment and erosion control,
- Water treatment shelter foundation,
- A portion of the water treatment shelter electrical, and
- The direct bury of the irrigation control wire

Barr Engineering has reviewed the application, and is recommending payment in the amount of **\$41,765.56**. Payments shall be made directly to Peterson Companies.

Please call me at 952-832-2755 if you have any questions or concerns about the application for payment, or about any other related matters.

Sincerely,

A handwritten signature in black ink that reads "Scott Sobiech". The signature is written in a cursive, flowing style.

Scott Sobiech, P.E.
Barr Engineering Co.

c: Claire Bleser, RPBCWD
Andrew Marchant, Peterson Companies

Enclosure #1 – Application for Payment – Progress Payment 1

**Chanhasen High School Stormwater Reuse Project
Progress Payment Number 1**

1.0	Total Completed Through This Period	<u>\$43,963.75</u>		
2.0	Total Completed Previous Period		<u>\$0.00</u>	
3.0	Total Completed This Period			<u>\$43,963.75</u>
4.0	Amount Retained, Previous Period		<u>\$0.00</u>	
5.0	Amount Retained, This Period (See Note 1)		<u>\$2,198.19</u>	
6.0	Total Amount Retained		<u>\$2,198.19</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Amount Due This Period			<u><u>\$41,765.56</u></u>

Note 1: At rate of 5% until Completed to Date equals 50% of current Contract Price. Retainage after 50% of current

Contract Price as determined by Engineer based on character and progress of work.

Note 2: Current Contract Price \$291,685.80

SUBMITTED BY:

Name: Andrew Marchant Date: 8/24/2018
 Title: Project Manager
 Contractor: Peterson Companies

Signature: *Andrew H Marchant*

RECOMMENDED BY:

Name: Scott Sobiech Date: 9/13/18
 Title: District Engineer
 Engineer: Barr Engineering Company

Signature: *Scott Sobiech*

APPROVED BY:

Name: Dick Ward Date: _____
 Title: President
 Owner: Riley Purgatory Bluff Creek Watershed District

Signature: _____

To(OWNER): Riley Purgatory Bluff Creek WD
18681 Lake Drive East
Chanhassen, MN 55317-4711

Project: Chanhassen HS Stormwater Reuse
2200 Lyman Boulevard
Chanhassen, MN 55317-4711

Application No: 1
Invoice No: 37515
Invoice Date: 8/22/2018
Terms: Net 30
Due Date: 9/21/2018
Period To: 8/22/2018
Project No: 18071F
Contract Date: 5/9/2018

From: Peterson Companies, Inc.
8326 Wyoming Trail
Chisago City, MN 55013
(651) 257-6864

Via(Architect/
Engineer)

For:

Contract sum.....	291,685.80
Completed to date.....	43,963.75
Retainage.....	2,198.19
Total earned less retainage.....	41,765.56
Previous billings.....	0.00
Current payment due.....	41,765.56
Sales tax.....	0.00
Total due.....	41,765.56

To(OWNER): Riley Purgatory Bluff Creek WD
 18681 Lake Drive East
 Chanhassen, MN 55317-4711

Project: Chanhassen HS Stormwater Reuse
 2200 Lyman Boulevard
 Chanhassen, MN 55317-4711

Application No: 1
 Invoice No: 37515
 Invoice Date: 8/22/2018
 Terms: Net 30
 Due Date: 9/21/2018
 Period To: 8/22/2018
 Project No: 18071F
 Contract Date: 5/9/2018

From: Peterson Companies, Inc.
 8326 Wyoming Trail
 Chisago City, MN 55013
 (651) 257-6864

Via(Architect/
 Engineer)

For:

AM

<u>No.</u>	<u>Description</u>	<u>Total Quantity</u>	<u>Unit</u>	<u>Total Cost</u>	<u>Total Cost</u>	<u>Completed Units</u>	<u>Current Value</u>	<u>Prior Value</u>	<u>Due This Request</u>
1-A	Mobilization/Demobilization	2		1,206.00	2,412.00	1	1,206.00	0.00	1,206.00
1-A	Mobilization/Demobilization	1		19,088.00	19,088.00	0.5	9,544.00	0.00	9,544.00
2-A	Erosion Control Silt Fence	320	LF	2.10	672.00	0	0.00	0.00	0.00
3-A	Sediment Control Log	766	LF	2.55	1,953.30	100	255.00	0.00	255.00
4-A	Inlet protection	5	EA	133.00	665.00	1	133.00	0.00	133.00
5-A	Woodchip Construction Entrance	1	EA	968.00	968.00	1	968.00	0.00	968.00
7-A	Water Treatment Shelter Foundation	1	LS	21,644.00	21,644.00	1	21,644.00	0.00	21,644.00
8-A	Water Treatment Shelter - Electrical Fixtures and Wiring	1	LS	3,740.00	3,740.00	0.5	1,870.00	0.00	1,870.00
9-A	Water Treatment System	1	LS	66,300.00	66,300.00	0	0.00	0.00	0.00
10-A	Pump Station & Foundation	1	LS	65,576.00	65,576.00	0	0.00	0.00	0.00
11-A	24" CPEP Pipe	45	LF	30.75	1,383.75	0	0.00	0.00	0.00
12-A	3" PVC Pipe	115	LF	22.00	2,530.00	0	0.00	0.00	0.00
13-A	Connection to Existing Irrigation Line	1	LS	6,738.00	6,738.00	0	0.00	0.00	0.00
14-A	Reconfiguration of Existing Irrigation Box	1	LS	6,700.00	6,700.00	0	0.00	0.00	0.00
15-A	Stilling Well	1	EA	5,120.00	5,120.00	0	0.00	0.00	0.00
16-A	Electrical & Controls	1	LS	37,570.00	37,570.00	0	0.00	0.00	0.00
17-A	Irrigation Control Wires - Direct Bury	1,875	LF	4.45	8,343.75	1,875	8,343.75	0.00	8,343.75
18-A	Turf Seed	1,144	SY	2.50	2,860.00	0	0.00	0.00	0.00
19-A	Prairie Seed	173	SY	10.00	1,730.00	0	0.00	0.00	0.00
20-A	Erosion Control Blanket	520	SY	3.15	1,638.00	0	0.00	0.00	0.00
C 1.4	Water Treatment Shelter - Concrete Masonry Unit	1	LS	34,054.00	34,054.00	0	0.00	0.00	0.00
					291,685.80		43,963.75	0.00	43,963.75



September 17, 2018

President Dick Ward and Board of Managers
Riley-Purgatory-Bluff Creek Watershed District
18681 Lake Dr E,
Chanhassen, MN 55317

**Re: Lake Susan Park Pond Watershed Treatment and Stormwater Reuse Project – Pay Application #1
Barr Project # 23/27-0053.14-013B**

Dear President Ward and Board of Managers:

Enclosed is the Application for Payment #1 from Peterson Companies for work completed through 8/22/2018, on the above-referenced project. Upon your review and approval, please sign three copies and return one copy to me, one copy to the contractor and retain the remaining copy for your files.

Major items of work covered by this pay application include:

- Mobilization,
- A portion of sediment and erosion control,
- Excavation for the iron enhanced sand filter (IESF),
- Purchase of the iron filings to mix the iron enhanced sand, and
- Purchase of the clean washed sand to mix the iron enhanced sand.

Barr Engineering has reviewed the application, and is recommending payment in the amount of **\$95,096.79**. Payments shall be made directly to Peterson Companies. Please note that this amount is less than the payment amount reflected in the Application for Payment #1 (Pay App) received from Peterson as a result of the following missing information:

- Barr Engineering measured 1,900 linear feet of silt fence/silt log in the field, which is less than the 2,015 linear feet shown on the Pay App.

Please call me at 952-832-2755 if you have any questions or concerns about the application for payment, or about any other related matters.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sobiech". The signature is fluid and cursive, written over a white background.

Scott Sobiech, P.E.
Barr Engineering Co.

c: Claire Bleser, RPBCWD
Andrew Marchant, Peterson Companies
Enclosure #1 – Application for Payment – Progress Payment 1

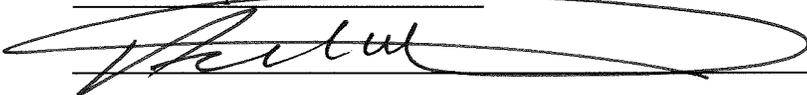
**Lake Susan Park Pond Watershed Treatment and Stormwater Reuse Project
Progress Payment Number 1**

1.0	Total Completed Through This Period	<u>\$95,096.79</u>		
2.0	Total Completed Previous Period		<u>\$0.00</u>	
3.0	Total Completed This Period			<u>\$95,096.79</u>
4.0	Amount Retained, Previous Period		<u>\$0.00</u>	
5.0	Amount Retained, This Period (See Note 1)		<u>\$4,754.84</u>	
6.0	Total Amount Retained		<u>\$4,754.84</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Amount Due This Period			<u><u>\$90,341.95</u></u>

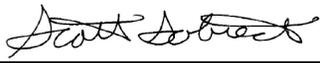
Note 1: At rate of 5% until Completed to Date equals 50% of current Contract Price. Retainage after 50% of current Contract Price as determined by Engineer based on character and progress of work.

Note 2: Current Contract Price \$467,460.69

SUBMITTED BY:

Name: Andrew Marchant Date: 17. SEPT, 2018
 Title: Project Manager
 Contractor: Peterson Companies
 Signature: 

RECOMMENDED BY:

Name: Scott Sobiech Date: 9/17/2018
 Title: District Engineer
 Engineer: Barr Engineering Company
 Signature: 

APPROVED BY:

Name: Dick Ward Date: _____
 Title: President
 Owner: Riley Purgatory Bluff Creek Watershed District
 Signature: _____



Lake Susan Park Pond Watershed Treatment and Stormwater Reuse Project
 Riley Purgatory Bluff Creek Watershed District
 Summary of Work Completed through 8/22/2018 for Progress Payment Number 1

Item	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	BID - Peterson Companies		(1) Total Completed Through This Period		(1) Total Completed for Pay Application #1	
				UNIT COST	EXTENSION	Quantity	Amount	Quantity	Amount
A	Mobilization/Demobilization	LS	1	\$36,889.00	\$36,889.00	0.5	\$18,444.50	0.5	\$18,444.50
B	Erosion Control Construction Entrance	Each	1	\$904.00	\$904.00	1	\$904.00	1	\$904.00
C	Clearing and Grubbing	Acre	0.2	\$26,740.00	\$5,348.00	0.2	\$5,348.00	0.2	\$5,348.00
D	Erosion Control Silt Fence	LF	1400	\$2.10	\$2,940.00	1900	\$3,990.00	1900	\$3,990.00
E	Erosion Control Blanket	SY	2500	\$1.85	\$4,625.00	0	\$0.00	0	\$0.00
F	Riprap, MnDot Class III with Filter Materials	Ton	40	\$116.25	\$4,650.00	0	\$0.00	0	\$0.00
G	Common Excavation for Iron Enhanced Sand Filter	CY	615	\$25.75	\$15,836.25	461.25	\$11,877.19	461.25	\$11,877.19
H	Site Restoration: Seed Mix	Acre	0.9	\$7,788.00	\$7,009.20	0	\$0.00	0	\$0.00
I	Site Restoration: 4" Black Powder Coated Landscape Edging	LF	54	\$12.00	\$648.00	0	\$0.00	0	\$0.00
J	Site Restoration: Plug Container Grass (Furnish and Install)	Each	354	\$3.60	\$1,274.40	0	\$0.00	0	\$0.00
K	Site Restoration: Gray Trap Rock Mulch	CY	1.2	\$726.70	\$872.04	0	\$0.00	0	\$0.00
L	Site Restoration: Buffer Zone Signage	Each	6	\$240.00	\$1,440.00	0	\$0.00	0	\$0.00
M	Site Restoration: Turf Reinforcement Mat (TRM)	SY	48	\$23.60	\$1,132.80	0	\$0.00	0	\$0.00
N	Polyvinyl Chloride (PVC) Underdrain Perforated Pipe and Fittings	LF	240	\$14.20	\$3,408.00	0	\$0.00	0	\$0.00
O	Polyvinyl Chloride (PVC) Non-Perforated Pipe and Fittings	LF	150	\$12.40	\$1,860.00	0	\$0.00	0	\$0.00
P	Geotextile	SY	790	\$2.70	\$2,133.00	553	\$1,493.10	553	\$1,493.10
Q	Cleanouts, Cleanout Structure and Water Level Control Structure	LS	1	\$5,930.00	\$5,930.00	0	\$0.00	0	\$0.00
R	Iron Filings	Ton	24	\$109.00	\$2,616.00	24	\$2,616.00	24	\$2,616.00
S	Clean Washed Sand	Ton	470	\$103.20	\$48,504.00	470	\$48,504.00	470	\$48,504.00
T	Pea Rock	Ton	62	\$104.75	\$6,494.50	0	\$0.00	0	\$0.00
U	Flow Distribution Structure	LS	1	\$5,490.00	\$5,490.00	0	\$0.00	0	\$0.00
V	High Density Polyethylene (HDPE) with Cut Openings and Angle Iron	LF	240	\$46.70	\$11,208.00	0	\$0.00	0	\$0.00
W	HDPE piping	LS	1	\$6,400.00	\$6,400.00	0.3	\$1,920.00	0.3	\$1,920.00
X	Water Treatment Building and Foundation	LS	1	\$50,622.50	\$50,622.50	0	\$0.00	0	\$0.00
Y	Water Treatment System	LS	1	\$138,200.00	\$138,200.00	0	\$0.00	0	\$0.00
Z	Intake/Backwash/Screen Flush Pipe Install	LS	1	\$3,721.00	\$3,721.00	0	\$0.00	0	\$0.00
AA	Directional Drill	LS	1	\$26,855.00	\$26,855.00	0	\$0.00	0	\$0.00
AB	Irrigation Box Connection	LS	1	\$5,867.00	\$5,867.00	0	\$0.00	0	\$0.00
AC	Electric and Controls	LS	1	\$41,375.00	\$41,375.00	0	\$0.00	0	\$0.00
AD	Pumps and Appurtenances	LS	1	\$5,825.00	\$5,825.00	0	\$0.00	0	\$0.00
AE	Stilling Well	LS	1	\$12,913.00	\$12,913.00	0	\$0.00	0	\$0.00
AF	Miscellaneous Pipe and Appurtenances	LS	1	\$4,500.00	\$4,500.00	0	\$0.00	0	\$0.00
CONSTRUCTION SUBTOTAL					\$467,490.69		\$95,096.79		\$95,096.79

Subtotal \$467,490.69 \$95,096.79 \$95,096.79

To(OWNER): Riley Purgatory Bluff Creek WD
18681 Lake Drive East
Chanhassen, MN 55317-4711

Project: Lake Susan Park Pond SW Reuse
1651 Lake Drive
Chanhassen, MN 55317-8583

Application No: 1
Invoice No: 37516
Invoice Date: 8/22/2018
Terms: Net 30
Due Date: 9/21/2018
Period To: 8/22/2018
Project No: 18080F
Contract Date: 5/10/2018

From: Peterson Companies, Inc.
8326 Wyoming Trail
Chisago City, MN 55013
(651) 257-6864

Via(Architect/
Engineer)

For:

Contract sum.....	467,490.69
Completed to date.....	95,338.29
Retainage.....	4,766.93
Total earned less retainage.....	90,571.36
Previous billings.....	0.00
Current payment due.....	90,571.36
Sales tax.....	0.00
Total due.....	90,571.36

To(OWNER): Riley Purgatory Bluff Creek WD
 18681 Lake Drive East
 Chanhassen, MN 55317-4711

Project: Lake Susan Park Pond SW Reuse
 1651 Lake Drive
 Chanhassen, MN 55317-8583

Application No: 1
 Invoice No: 37516
 Invoice Date: 8/22/2018
 Terms: Net 30
 Due Date: 9/21/2018
 Period To: 8/22/2018
 Project No: 18080F
 Contract Date: 5/10/2018

From: Peterson Companies, Inc.
 8326 Wyoming Trail
 Chisago City, MN 55013
 (651) 257-6864

Via(Architect/
 Engineer)

For:

AM

<u>No.</u>	<u>Description</u>	<u>Total Quantity</u>	<u>Unit</u>	<u>Total Cost</u>	<u>Total Cost</u>	<u>Completed Units</u>	<u>Current Value</u>	<u>Prior Value</u>	<u>Due This Request</u>
A	Mobilization/Demobilization	1		17,951.00	17,951.00	0.5	8,975.50	0.00	8,975.50
A	Mobilization/Demobilization	1		9,230.00	9,230.00	0.5	4,615.00	0.00	4,615.00
A	Mobilization/Demobilization	1		9,708.00	9,708.00	0.5	4,854.00	0.00	4,854.00
B	Erosion Control Construction Entrance	1	EA	904.00	904.00	1	904.00	0.00	904.00
C	Clearing and Grubbing	0.2	AC	26,740.00	5,348.00	0.2	5,348.00	0.00	5,348.00
D	Erosion Control Silt Fence	1,400	LF	2.10	2,940.00	2,015	4,231.50	0.00	4,231.50
E	Erosion Control Blanket	2,500	SY	1.85	4,625.00	0	0.00	0.00	0.00
F	Riprap, MnDot Class III with Filter Materials	40	TN	116.25	4,650.00	0	0.00	0.00	0.00
G	Common Excavation for Iron Enhanced Sand Filter	615	CY	25.75	15,836.25	461.25	11,877.19	0.00	11,877.19
H	Site Restoration: Seed Mix	0.9	AC	7,788.00	7,009.20	0	0.00	0.00	0.00
I	Site Restoration: 4" Black Powder Coated Landscape Edging	54	LF	12.00	648.00	0	0.00	0.00	0.00
J	Site Restoration: Plug Container Grass (Furnish and Install)	354	EA	3.60	1,274.40	0	0.00	0.00	0.00
K	Site Restoration: Gray Trap Rock Mulch	1.2	CY	726.70	872.04	0	0.00	0.00	0.00
L	Site Restoration: Buffer Zone Signage	6	EA	240.00	1,440.00	0	0.00	0.00	0.00
M	Site Restoration: Turf Reinforcement Mat (TRM)	48	SY	23.60	1,132.80	0	0.00	0.00	0.00
N	Polyvinyl Chloride (PVC) Underdrain Perforated Pipe and Fitt	240	LF	14.20	3,408.00	0	0.00	0.00	0.00
O	Polyvinyl Chloride (PVC) Non-Perforated Pipe and Fittings	150	LF	12.40	1,860.00	0	0.00	0.00	0.00
P	Geotextile	790	SY	2.70	2,133.00	553	1,493.10	0.00	1,493.10
Q	Cleanouts, Cleanout Structure and Water Level Control Struct	1	LS	5,930.00	5,930.00	0	0.00	0.00	0.00
R	Iron Filings	24	TN	109.00	2,616.00	24	2,616.00	0.00	2,616.00
S	Clean Washed Sand	470	TN	103.20	48,504.00	470	48,504.00	0.00	48,504.00
T	Pea Rock	62	TN	104.75	6,494.50	0	0.00	0.00	0.00
U	Flow Distribution Structure	1	LS	5,490.00	5,490.00	0	0.00	0.00	0.00
V	High Density Polyethylene (HDPE) with Cut Openings and Angle	240	LF	46.70	11,208.00	0	0.00	0.00	0.00
W	HDPE piping	1	LS	6,400.00	6,400.00	0.3	1,920.00	0.00	1,920.00

To(OWNER): Riley Purgatory Bluff Creek WD
 18681 Lake Drive East
 Chanhassen, MN 55317-4711

Project: Lake Susan Park Pond SW Reuse
 1651 Lake Drive
 Chanhassen, MN 55317-8583

Application No: 1
 Invoice No: 37516
 Invoice Date: 8/22/2018
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 Period To: 8/22/2018
 Project No: 18080F
 Contract Date: 5/10/2018

From: Peterson Companies, Inc.
 8326 Wyoming Trail
 Chisago City, MN 55013
 (651) 257-6864

Via(Architect/
 Engineer)

For:

<u>No.</u>	<u>Description</u>	<u>Total Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>	<u>Completed Units</u>	<u>Current Value</u>	<u>Prior Value</u>	<u>Due This Request</u>
X	Water Treatment Building and Foundation	1	LS	50,622.50	50,622.50	0	0.00	0.00	0.00
Y	Water Treatment System	1	LS	138,200.00	138,200.00	0	0.00	0.00	0.00
Z	Intake/Backwash/Screen Flush Pipe Install	1	LS	3,721.00	3,721.00	0	0.00	0.00	0.00
AA	Directional Drill	1	LS	26,855.00	26,855.00	0	0.00	0.00	0.00
AB	Irrigation Box Connection	1	LS	5,867.00	5,867.00	0	0.00	0.00	0.00
AC	Electric and Controls	1	LS	41,375.00	41,375.00	0	0.00	0.00	0.00
AD	Pumps and Appurtenances	1	LS	5,825.00	5,825.00	0	0.00	0.00	0.00
AE	Stilling Well	1	LS	12,913.00	12,913.00	0	0.00	0.00	0.00
AF	Miscellaneous Pipe and Appurtenances	1	LS	4,500.00	4,500.00	0	0.00	0.00	0.00
					467,490.69		95,338.29	0.00	95,338.29



September 14, 2018

President Dick Ward and Board of Managers
Riley-Purgatory-Bluff Creek Watershed District
18681 Lake Drive East
Chanhassen, MN 55317

**Re: Purgatory Creek at Highway 101 Stabilization Project – Pay Application #4 (Final)
Barr Project # 23/27-0053.14-007**

Dear President Ward and Board of Managers:

Enclosed is the Application for Payment #4 from Minnesota Native Landscapes for work completed through 9/7/2018, on the above-referenced project. Upon your review and approval, please sign three copies and return one copy to me, one copy to the contractor and retain the remaining copy for your files.

Major items of work covered by this pay application include installing cedar trees within the construction entrance and the one-year vegetation maintenance period.

The project is now complete, so this pay application will be the final payment on the project. As such, the retainage held on the project is also included in the pay application. The project was completed and constructed according to the contract documents. The contract documents included a one year warranty period for all constructed items and for installed vegetation. The project was substantially complete in December 2016, so the warranty period for the constructed items ended in December 2017. Final vegetation was installed in May 2017, so the warranty period for the vegetation expired in May 2018. Additional plantings from Change Order #2 were installed in early September 2018 and are not subject to any additional warranty period.

Barr Engineering has reviewed the application, and is recommending payment in the amount of **\$21,984.38**. Payments shall be made directly to Minnesota Native Landscapes.

Please call me at 952-832-2755 if you have any questions or concerns about the application for payment, or about any other related matters.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sobiech".

Scott Sobiech, P.E.
Barr Engineering Co.

c: Claire Bleser, RPBCWD
Jeff Renier, Minnesota Native Landscapes

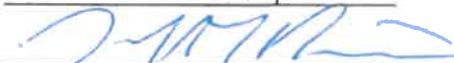
Enclosure #1 – Application for Payment – Progress Payment 4
Enclosure #2 – Consent of Surety to Final Payment
Enclosure #3 – IC-134 Form

**Purgatory Creek at Highway 101 Stabilization Project
Progress Payment Number 4**

1.0	Total Completed Through This Period	<u>\$248,203.75</u>		
2.0	Total Completed Previous Period		<u>\$239,688.75</u>	
3.0	Total Completed This Period			<u>\$8,515.00</u>
4.0	Amount Retained, Pervious Period		<u>\$13,469.38</u>	
5.0	Amount Retained, This Period (See Note 1)		<u>\$0.00</u>	
6.0	Total Amount Retained		<u>\$13,469.38</u>	
7.0	Retainage Released Through This Period:			<u>\$13,469.38</u>
8.0	Amount Due This Period			<u><u>\$21,984.38</u></u>

Note 1: At rate of 10% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.
 Note 2: Current Contract Price \$270,402.50

SUBMITTED BY:

Name: Jeff Renier Date: 9-14-2018
 Title: Project Manager
 Contractor: Minnesota Native Landscapes
 Signature: 

RECOMMENDED BY:

Name: Scott Sobiech Date: 9/14/2018
 Title: District Engineer
 Engineer: Barr Engineering Company
 Signature: 

APPROVED BY:

Name: Dick Ward Date: _____
 Title: President
 Owner: Riley Purgatory Bluff Creek Watershed District
 Signature: _____

Purgatory Creek at Highway 101 Stabilization Project
Riley Purgatory Bluff Creek Watershed District
Summary of Work Completed through September 7, 2018 for Progress Payment Number 4

Item	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	BID - MN NATIVE LANDSCAPES		(1) Total Completed Through This Period		(1) Total Completed for Pay Application #1		(1) Total Completed for Pay Application #2		(1) Total Completed for Pay Application #3		(1) Total Completed for Pay Application #4	
				UNIT COST	EXTENSION	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
1.06.A	Mobilization/Demobilization	L.S.	1	\$8,500.00	\$8,500.00	1	\$8,500.00	0.75	\$6,375.00	0	\$0.00	0.25	\$2,125.00	0	\$0.00
1.06 B	Clearing and Grubbing	Acre	1.1	\$2,500.00	\$2,750.00	1.1	\$2,750.00	1.1	\$2,750.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06.C	Remove Select Tree and Salvage Tree Trunk with Root Ball	Each	24	\$350.00	\$8,400.00	25	\$8,750.00	25	\$8,750.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 D	Remove Tree for Disposal	Each	63	\$200.00	\$12,600.00	63	\$12,600.00	63	\$12,600.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 E	Tree Protection Fencing	L.F.	1500	\$5.00	\$7,500.00	750	\$3,750.00	750	\$3,750.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 F	Buckthorn Removal and Chemical Treatment of Stumps	Acre	1.1	\$990.00	\$1,089.00	1.1	\$1,089.00	1.1	\$1,089.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 G	Erosion Control Construction Entrance	Each	1	\$2,500.00	\$2,500.00	1	\$2,500.00	1	\$2,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 H	Inlet Protection	Each	2	\$400.00	\$800.00	1	\$400.00	1	\$400.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 I	Erosion Control Silt Fence	L.F.	1500	\$5.00	\$7,500.00	60	\$300.00	60	\$300.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 J	Sediment Log - (Type Compost)	L.F.	1108	\$5.00	\$5,540.00	1108	\$5,540.00	1108	\$5,540.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 K	Floataion Silt Curtain	L.F.	25	\$20.00	\$500.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 L	Erosion Control Blanket	S.Y.	2400	\$2.00	\$4,800.00	2400	\$4,800.00	2400	\$4,800.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 M	Street Sweeping	Each	12	\$400.00	\$4,800.00	12	\$4,800.00	12	\$4,800.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 N	Control of Water	L.S.	1	\$2,500.00	\$2,500.00	1	\$2,500.00	1	\$2,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 O	Remove and Salvage Topsoil (P)	C.Y.	144	\$12.00	\$1,728.00	144	\$1,728.00	144	\$1,728.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 P	Remove 72" CMP Culvert	L.S.	1	\$700.00	\$700.00	1	\$700.00	1	\$700.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 Q	Common Excavation (P)	C.Y.	903	\$5.00	\$4,515.00	903	\$4,515.00	903	\$4,515.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 R	Grading	S.Y.	1500	\$3.00	\$4,500.00	1500	\$4,500.00	1500	\$4,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 S	Removal and Disposal of Material	C.Y.	1436	\$5.00	\$7,180.00	1436	\$7,180.00	1436	\$7,180.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 T	Vegetated Reinforced Soil Slope (VRSS)	S.F.F.	860	\$31.00	\$26,660.00	573	\$17,763.00	573	\$17,763.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 U	Riprap, Mn/DOT Class III	Ton	485	\$60.00	\$29,100.00	379	\$22,740.00	379	\$22,740.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 U	Riprap, Mn/DOT Class I	Ton	40	\$60.00	\$2,400.00	90	\$5,400.00	90	\$5,400.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 V	Granular Filter Rock	Ton	180	\$60.00	\$10,800.00	133	\$7,980.00	133	\$7,980.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 W	Cross Vane	L.F.	270	\$45.00	\$12,150.00	270	\$12,150.00	270	\$12,150.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 X	Rock Vane	L.F.	45	\$45.00	\$2,025.00	30	\$1,350.00	30	\$1,350.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 Y	Install Root Wad	Each	24	\$150.00	\$3,600.00	25	\$3,750.00	25	\$3,750.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 Z	Turf Reinforcement Mat (TRM)	S.Y.	334	\$7.50	\$2,505.00	334	\$2,505.00	334	\$2,505.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 AA	Biolog (Coir Log)	L.F.	361	\$31.00	\$11,191.00	300	\$9,300.00	300	\$9,300.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 BB	Traffic Control	L.S.	1	\$3,500.00	\$3,500.00	1	\$3,500.00	1	\$3,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 CC	Furnish and install Buffer markers	Each	39	\$150.00	\$5,850.00	39	\$5,850.00		\$0.00	39	\$5,850.00	0	\$0.00	0	\$0.00
1.06 DD	Pre-construction survey	L.S.	1	\$2,500.00	\$2,500.00	1	\$2,500.00	1	\$2,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 EE	post-construction survey	L.S.	1	\$2,500.00	\$2,500.00	1	\$2,500.00	1	\$2,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 FF	Temporary fencing	L.F.	390	\$6.00	\$2,340.00	850	\$5,100.00	850	\$5,100.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 GG	Seed Area	S.Y.	4800	\$0.50	\$2,400.00	4800	\$2,400.00	4800	\$2,400.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 HH	Cover Crop Seed Mix	Lbs.	27.5	\$4.00	\$110.00	27.5	\$110.00	27.5	\$110.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 HH	Riparian Restoration Seed Mix	Lbs.	11.7	\$175.00	\$2,047.50	29.25	\$5,118.75	29.25	\$5,118.75	0	\$0.00	0	\$0.00	0	\$0.00
1.06 II	Live Stake	Each	393	\$9.00	\$3,537.00	500	\$4,500.00		\$0.00	500	\$4,500.00	0	\$0.00	0	\$0.00
1.06 JJ	Plant Tree	Each	92	\$150.00	\$13,800.00	92	\$13,800.00		\$0.00	0	\$0.00	92	\$13,800.00		\$0.00
1.06 KK	Plant Shrub	Each	640	\$25.00	\$16,000.00	640	\$16,000.00		\$0.00	0	\$0.00	640	\$16,000.00		\$0.00
1.06 LL	Straw Mulch	S.Y.	2400	\$0.50	\$1,200.00	2400	\$1,200.00	2400	\$1,200.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 MM	Site Restoration	Acre	1.1	\$1,500.00	\$1,650.00	1.1	\$1,650.00	1.1	\$1,650.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 NN	Vegetation Management (1-yr)	L.S.	1	\$7,500.00	\$7,500.00	1	\$7,500.00		\$0.00	0	\$0.00	0	\$0.00	1	\$7,500.00
	CONSTRUCTION SUBTOTAL				\$253,767.50		\$231,568.75		\$181,793.75		\$10,350.00		\$31,925.00		\$7,500.00
	Bid Alternates														
1.06 OO	Composite Rock-Wood Bank Protection	L.F.	85	\$100.00	\$8,500.00	85	\$8,500.00	85	\$8,500.00	0	\$0.00	0	\$0.00	0	\$0.00
	Change Order #1														
	Cedar Revetment	L.F.	178	\$40.00	\$7,120.00	178	\$7,120.00	178	\$7,120.00	0	\$0.00	0	\$0.00	0	\$0.00
	Change Order #2														
	Cedar Trees	Each	7	\$145.00	\$1,015.00	7	\$1,015.00		\$0.00	0	\$0.00	0	\$0.00	7	\$1,015.00
	Subtotal				\$270,402.50		\$248,203.75		\$197,413.75		\$10,350.00		\$31,925.00		\$8,515.00

MERCHANTS
BONDING COMPANY

MERCHANTS BONDING COMPANY (MUTUAL) P.O. BOX 14498, DES MOINES, IOWA 50306-3498
PHONE: (800) 678-8171 FAX: (515) 243-3854

**CONSENT OF SURETY
TO FINAL PAYMENT**

OWNER
ARCHITECT
CONTRACTOR
SURETY
OTHER

Bond No. MNC 67200

TO OWNER:

Riley-Purgatory-Bluff Creek Watershed District
14500 Martin Drive, Suite 1500
Eden Prairie, MN 55344

ARCHITECT'S PROJECT NO.:

CONTRACT FOR:
Culverts, Waterways, Stormwater Channels, Site Work/
Excavating, Stormwater Improvements, Water Resources
Infrastructure

PROJECT:

Purgatory Creek at Highway 101 Stabilization Project

CONTRACT DATED: June 2nd, 2016

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

Merchants Bonding Company (Mutual)
P.O. Box 14498
Des Moines, Iowa 50306-3498

, SURETY,

on bond of

(Insert name and address of Contractor)

Minnesota Native Landscapes, Inc.
8470 77th Street NE
Otsego, MN 55362

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not
relieve the Surety of any of its obligations to

(Insert name and address of Owner)

Riley-Purgatory-Bluff Creek Watershed District
14500 Martin Drive, Suite 1500
Eden Prairie, MN 55344

, OWNER,

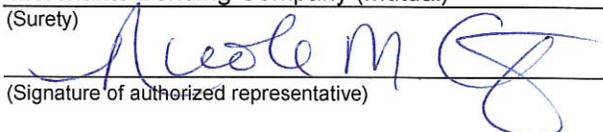
as set forth in said Surety's bond.

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date: September 13th, 2018
(Insert in writing the month followed by the numeric date and year.)

Attest:
(Seal):



Merchants Bonding Company (Mutual)
(Surety)



Nicole M. Coty
(Printed name and title)

Attorney-In-Fact

Printed in cooperation with American Institute of Architects (AIA). The
language in this document conforms exactly to the language used in
AIA Document G707-1994 Consent Of Surety to Final Payment.

MERCHANTS BONDING COMPANY™

POWER OF ATTORNEY

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

Christa Sullivan; DeeAnn Swanson; Erik Mueller; Litton E S Field Jr; Nicole M Coty; Patricia M Rowan; Sarah C Lorenzen

their true and lawful Attorney(s)-in-Fact, to sign its name as surety(ies) and to execute, seal and acknowledge any and all bonds, undertakings, contracts and other written instruments in the nature thereof, on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and amended August 14, 2015 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 16, 2015.

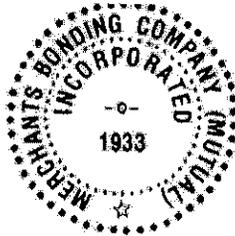
"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of Indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 28th day of April, 2017.

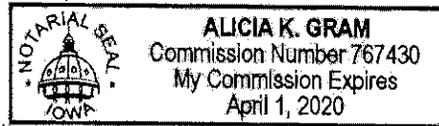


MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.

By *Larry Taylor*
President

STATE OF IOWA
COUNTY OF DALLAS ss.

On this this 28th day of April 2017, before me appeared Larry Taylor, to me personally known, who being by me duly sworn did say that he is President of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

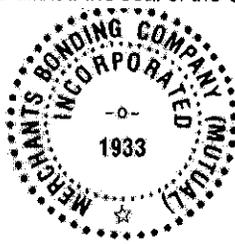


Alicia K. Gram
Notary Public

(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 13th day of September, 2018.



William Warner Jr.
Secretary

Jeff Weiss

From: Jeff Renier <jeff@mnlcorp.com>
Sent: Thursday, September 13, 2018 3:22 PM
To: Jeff Weiss
Cc: Mandy Savchenko
Subject: FW: Your Recent Contractor Affidavit Request

Hi Jeff, Please let me know if you have any questions.
Thanks,
Jeff

From: MN Revenue e-Services <eservices.mdor@state.mn.us>
Sent: Thursday, September 13, 2018 3:17 PM
To: amy@mnlcorp.com
Subject: Your Recent Contractor Affidavit Request

This email is an automated notification and is unable to receive replies.

Contractor Affidavit Completed

Thank you, your Contractor Affidavit has been approved.

Confirmation Summary

Confirmation Number: 0-112-101-824
Submitted Date and Time: 13-Sep-2018 3:17:09 PM
Legal Name: MINNESOTA NATIVE LANDSCAPES INC
Federal Employer ID: 41-1992818
User Who Submitted: MNNATIVE1
Type of Request Submitted: Contractor Affidavit

Affidavit Summary

Affidavit Number: 1840717824
Minnesota ID: 5168348
Project Owner: RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Project Number: 23/27-0053.14-007
Project Begin Date: 15-Oct-2016
Project End Date: 06-Sep-2018
Project Location: MINNETONKA MN
Project Amount: \$270,402.50
Subcontractors: No Subcontractors

Important Messages

A copy of this page must be provided to the contractor or government agency that hired you.

Contact Us

If you need further assistance, contact our Withholding Tax Division at 651-282-9999, (toll-free) 800-657-3594, or (email) withholding.tax@state.mn.us. Business hours are 8:00 a.m. - 4:30 p.m. Monday - Friday.

How to View and Print this Request

You can see copies of your requests by going into your History.

This message and any attachments are solely for the intended recipient and may contain nonpublic / private data. If you are not the intended recipient, any disclosure, copying, use, or distribution of the information included in this message and any attachments is prohibited. If you have received this communication in error, please notify us and immediately and permanently delete this message and any attachments. Thank you.



September 17, 2018

President Dick Ward and Board of Managers
Riley-Purgatory-Bluff Creek Watershed District
14500 Martin Drive Suite 1500
Eden Prairie, MN 55344

**Re: Scenic Heights Elementary School Forest Restoration Project – Pay Application #3
Barr Project # 23/27-0053.14-023**

Dear President Ward and Board of Managers:

Enclosed is the Application for Payment #3 from Landbridge Ecological (formally Wetland Habitats Restorations) for work completed through 8/31/18, on the above-referenced project. Upon your review and approval, please sign three copies and return one copy to me, one copy to the contractor and retain the remaining copy for your files.

Major items of work covered by this pay application include three management visits through July and August 2018.

Barr Engineering has reviewed the application, and is recommending payment in the amount of **\$6,750.00**. Payments shall be made directly to Landbridge Ecological.

Please call me at 952-832-2649 if you have any questions or concerns about the application for payment, or about any other related matters.

Sincerely,

A handwritten signature in black ink, appearing to read "Matthew Kumka". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Matthew Kumka, PLA
Barr Engineering Co.

c: Claire Bleser, RPBCWD
Elissa Thompson, Landbridge Ecological

Enclosure #1 – Application for Payment – Progress Payment 3

**Scenic Heights School Forest Restoration Project
Progress Payment Number 3**

1.0	Total Completed Through This Period	\$93,113.00		
2.0	Total Completed Previous Period		\$46,150.00	
3.0	Total Completed This Period			\$7,500.00
4.0	Amount Retained, Previous Period		\$4,615.00	
5.0	Amount Retained, This Period (See Note 1)		\$750.00	
6.0	Total Amount Retained		\$5,365.00	
7.0	Retainage Released Through This Period:			\$0.00
8.0	Amount Due This Period			\$6,750.00

Note 1: At rate of 10% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.

Note 2: Current Contract Price \$199,225.00

SUBMITTED BY:

Name: Elissa Thompson Date: 9/17/2018
 Title: Project Manager
 Contractor: Landbridge Ecological
 Signature: *Elissa Thompson*

RECOMMENDED BY:

Name: Matt Kumka Date: 9/17/2018
 Title: Project Manager
 Engineer: Barr Engineering Company
 Signature: *[Signature]*

APPROVED BY:

Name: Dick Ward Date: _____
 Title: President
 Owner: Riley Purgatory Bluff Creek Watershed District
 Signature: _____

Scenic Heights School Forest Restoration Project
 Riley Purgatory Bluff Creek Watershed District
 Summary of Work Completed through August 31, 2018 for Progress Payment Number 3



Item	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	BID - LANDBRIDGE ECOL		(1) Total Completed Through This Period		(2) Total Completed Through This Period		(3) Total Completed Through This Period	
				UNIT COST	EXTENSION	Quantity	Amount	Quantity	Amount	Quantity	Amount
1.06 A	Mobilization/Demobilization	L.S.	1	\$15,500.00	\$15,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 B	Erosion Control Construction Entrance	Each	1	\$2,500.00	\$2,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 C	Desirable Plant Marking for Protection	L.S.	1	\$1,750.00	\$1,750.00	1	\$1,750.00	0	\$0.00	0	\$0.00
1.06 D	Clear and Grub Woody Invasive Plant Removal (Trees under 8")	AC	7	\$4,500.00	\$31,500.00	6	\$27,000.00	1	\$4,500.00	0	\$0.00
1.06 F	Clear and Grub Woody Invasive Plant Removal (Trees over 8")	Each	40	\$450.00	\$18,000.00	33	\$14,850.00	7	\$3,150.00	0	\$0.00
1.06 H	Remove and Dispose of Adopt-A-Plots Signs	Each	30	\$85.00	\$2,550.00	30	\$2,550.00	0	\$0.00	0	\$0.00
1.06 I	Heavy Duty Silt Fence	L.F.	85	\$15.50	\$1,317.50	0	\$0.00	0	\$0.00	0	\$0.00
1.06 J	Erosion Control Blanket	S.Y.	125	\$5.50	\$687.50	0	\$0.00	125	\$687.50	0	\$0.00
1.06 K	Remove and Salvage Topsoil (P)	C.Y.	80	\$45.00	\$3,600.00	0	\$0.00	80	\$3,600.00	0	\$0.00
1.06 L	Grading	L.S.	1	\$5,900.00	\$5,900.00	0	\$0.00	1	\$5,900.00	0	\$0.00
1.06 M	Rock Riffle	Each	3	\$3,500.00	\$10,500.00	0	\$0.00	3	\$10,500.00	0	\$0.00
1.06 N	Woodland Seed Mix with Cover Crop (Custom Mix)	AC	4.7	\$2,200.00	\$10,340.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 O	Prairie Seed Mix with Cover Crop (MnDOT 35-221)	AC	1.3	\$1,950.00	\$2,535.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 P	Woodland Edge Seed Mix with Cover Crop (MnDOT 36-711)	AC	1.2	\$1,850.00	\$2,220.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 Q	Wet Meadow Seed Mix with Cover Crop (MnDOT 34-261)	AC	0.5	\$3,500.00	\$1,750.00	0	\$0.00	0.3	\$1,050.00	0	\$0.00
1.06 R	Live Stake (Furnish and Install)	Each	148	\$15.50	\$2,294.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 S	#10 Cont. Tree (Furnish and Install)	Each	30	\$350.00	\$10,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 T	Shrub, Bare Root (Furnish and Install)	Each	182	\$25.50	\$4,641.00	0	\$0.00	101	\$2,575.50	0	\$0.00
1.06 U	Herbaceous Plug (Furnish, Install by others)	Each	2520	\$1.50	\$3,780.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 U	Straw Mulch	AC	7.7	\$1,550.00	\$11,935.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 V	Shredded Hardwood Mulch	C.Y.	45	\$65.00	\$2,925.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 W	Herbaceous Management Site Visit 2018	Each	7	\$2,500.00	\$17,500.00	0	\$0.00	3	\$7,500.00	3	\$7,500.00
1.06 X	Herbaceous Management Site Visit 2019	Each	7	\$2,500.00	\$17,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.06 Y	Herbaceous Management Site Visit 2020	Each	7	\$2,500.00	\$17,500.00	0	\$0.00	0	\$0.00	0	\$0.00
CONSTRUCTION SUBTOTAL					\$199,225.00		\$46,150.00		\$39,463.00		\$7,500.00



INVOICE # 2721

670 Vandalia Street | Saint Paul, MN 55114
612.503.4420 | www.landbridge.eco | info@landbridge.eco

BILL TO Riley Purgatory Bluff Creek WD
18681 Lake Dr. E.
Chanhassen, MN 55317

PROJECT 17-054 Scenic Heights Restoration
DATE 8/31/18
TERMS Net 30

DESCRIPTION	QTY	RATE	AMOUNT
Herbaceous Management Site Visit 2018 (EA)	3	2,500.00	7,500.00

TOTAL \$7,500.00

PAYMENTS / CREDITS \$0.00

BALANCE DUE \$7,500.00

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District
From: Barr Engineering Co.
Subject: Bluff Creek Restoration Project – Request Board Authorization to Solicit Bids for Construction
Date: August 29, 2018
Project: 23/27-0053.14 021
c: Claire Bleser – RPBCWD Administrator

RPBCWD has documented erosion along a tributary of Bluff Creek between Audubon Road and Pioneer Trail. The Creek Restoration Action Strategy (CRAS) was a tool developed by RPBCWD to compare erosion and potential benefits of doing a project along a given reach. The CRAS score for reach BT3A was tied for the second highest overall score of all reaches within the District. In January 2017, the RPBCWD completed a feasibility study to identify cost effective stabilization options and recommendations. The feasibility study recommended two alternatives for stabilization of the entire reach. At the May 2017, Board meeting the RPBCWD Board of Managers authorized final design and preparation of construction documents for the reach based on findings in the feasibility study, which included stabilization of the upper half of the reach, and the stabilization of a headcut in a tributary ravine.

Construction documents including bidding documents, construction drawings, and technical specifications, have been prepared for the stabilization reach. The design of the proposed system includes, but is not limited to, grading of the channel and stream banks, installation of root wads, cross vanes, riprap, turf reinforcement mats, constructed riffles, vegetated reinforced soil slopes, new manhole structure, and a flared end section along approximately 1,500 feet of the Bluff Creek tributary and the tributary ravine. The construction drawings also include erosion control, site restoration with native plantings, and establishment of a buffer for the creek.

The timing for construction of this project is critical. Construction will include grading the channel and immediate banks to create a floodplain. As such, the construction area will be concentrated in the existing channel, so timing the construction during anticipated low flows will minimize the need to control water and reduce the risk of erosion during construction. The best window for completing this work is anticipated to be in late fall and early winter when precipitation may be more snow than rain yet frost is still shallow enough to complete grading without significant adverse impacts. RPBCWD and Barr have been working with the city of Chanhassen and agencies to complete necessary permitting, and it is anticipated that all permits will be approved prior to the anticipated start of the project in November. The following table summarizes necessary permits and the approval status:

To: Riley-Purgatory-Bluff Creek Watershed District
 From: Barr Engineering Co.
 Subject: Bluff Creek Restoration Project – Request Board Authorization to Solicit Bids for Construction
 Date: August 29, 2018
 Page: 2

Table 1 Permitting status

Permitting Agency	Status
City of Chanhassen	Regular communications with City to discuss requirements
MN DNR	Not required because the reach is not listed as a public water
US Army Corps of Engineers	Submitted
RPBCWD	Under review by District

The Engineer’s opinion of probable cost presented in the January 2017 feasibility study as well as the opinion of cost based on the construction documents prepared for the designed stabilization measures is summarized in Table 2. The overall costs (Row D) are higher than the original estimate from the feasibility study, but within the estimated accuracy range. The higher final costs are attributed to the following items:

- Multiple items have been added to the overall construction project that will be paid for by the city of Chanhassen. These items include installation of a new manhole structure and replacement of a flared end section where storm sewers discharge into the creek.
- The design was modified from the feasibility study for to provide additional grading of the banks and floodplain to more properly manage peak flows and velocities. The additional grading creates a continuous floodplain connection along the entire reach and reduces the number of trees to be removed because the access route will be within the grading areas in the channel. This added some cost, but will result in a more resilient project with fewer trees removed.
- The 100% cost estimate was developed using most recent bid prices from similar projects that have been bid in 2018.

Table 2. Engineer’s Opinion of Probable Cost

Item	Feasibility Study (January 2017)	100% Submittal (August 2018)
ESTIMATED CONSTRUCTION COST	\$198,700	\$259,000
ESTIMATED ACCURACY RANGE	\$149,000	\$246,100
	\$278,200	\$284,900

*Estimated accuracy range for feasibility study was -25% and +40% of the estimated total project cost

*Estimate does not include cost long-term coordination with city of Chanhassen for ongoing monitoring

*100% submittal cost includes costs to be borne by the city of Chanhassen for the installation of a new manhole and replacement of a flared end section

The opinion of probable cost provided is made on the basis of Barr Engineering’s experience and qualifications and represents our best judgment as experienced and qualified professionals familiar with the project. Because we have no control over the cost of labor, materials, equipment or services furnished by others, or over the contractor’s methods of determining prices, or over competitive bidding or market conditions, Barr Engineering cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinion of probable cost presented.

To: Riley-Purgatory-Bluff Creek Watershed District
From: Barr Engineering Co.
Subject: Bluff Creek Restoration Project – Request Board Authorization to Solicit Bids for Construction
Date: August 29, 2018
Page: 3

It is requested that the RPBCWD Board of Managers authorize Barr Engineering Co. to solicit bids from contractors to construct Bluff Creek Restoration Project as designed and shown on the construction documents. If the Board of Managers authorizes solicitation of bids to construct the stabilization measures, the following tasks would be completed. It is recommended that bids not be solicited until the cooperative agreement with the city of Chanhassen is executed; therefore the tentative schedule below is subject to revision.

- September 5, 2018 – Board of Managers authorizes Barr Engineering Co. to solicit bids
- September 6, 2018 – Advertise in construction bulletin
- September 17, 2018 – Advertise in local papers
- September 18, 2018 – Mandatory pre-bid meeting
- September 27, 2018 – Open bids
- October 3, 2018 – Board approval of bid
- November 8, 2018 (or after) – Construction begins.

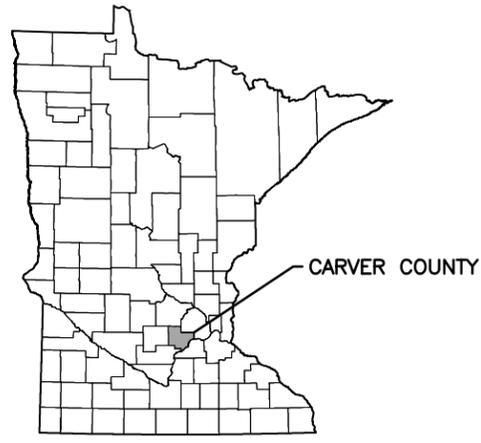
Attachments

- Selected sheets from the drawings for the Bluff Creek Restoration Project.

BLUFF CREEK RESTORATION

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

CHANHASSEN, MINNESOTA



MINNESOTA COUNTY MAP

CONTACTS:

ENGINEER CONTACT:
 Jeff Weiss
 Barr Engineering Co.
 4300 MarketPointe Dr.
 Minneapolis, MN 55435
 952-832-2706
 jweiss@barr.com

OWNER'S REPRESENTATIVE CONTACT:
 Claire Blesser
 14500 Martin Drive Suite 1500
 Eden Prairie, MN 55344
 952-607-6512
 cblesser@rileywd.org



GOPHER STATE ONE CALL:
 CALL BEFORE YOU DIG.
 1-800-252-1166



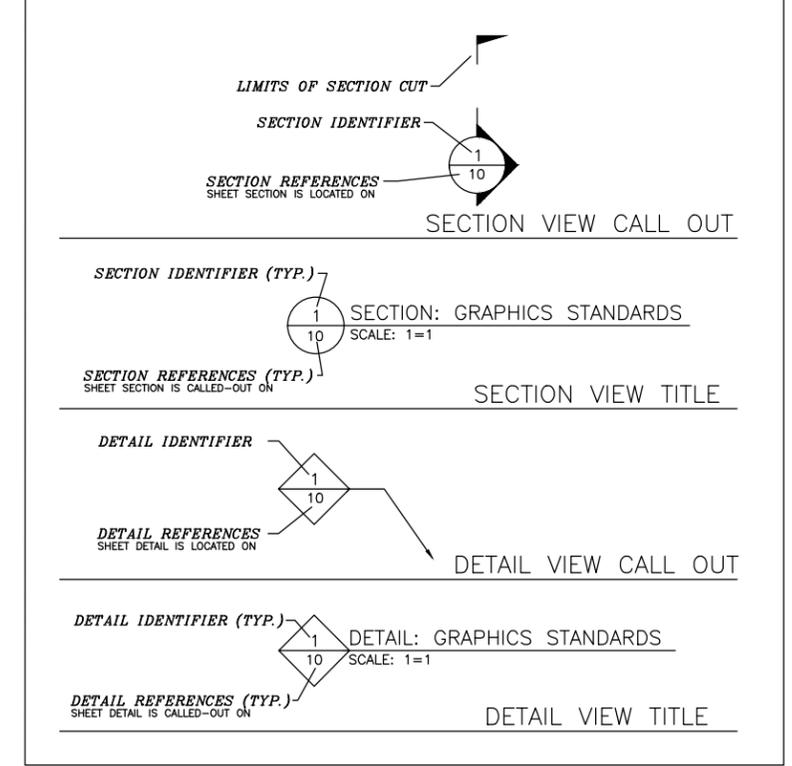
1 PLAN: LOCATION MAP

0 250 500
SCALE IN FEET

INDEX OF SHEETS

- G-01 TITLE SHEET AND INDEX
- G-02 STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
- G-03 EROSION CONTROL PLAN
- G-04 TRAFFIC CONTROL PLAN
- C-01 EXISTING CONDITIONS
- C-02 BLUFF CREEK RESTORATION PLAN AND PROFILE (STA. 0+00 TO 8+00)
- C-03 BLUFF CREEK RESTORATION PLAN AND PROFILE (STA. 9+00 TO 16+50)
- C-04 BLUFF CREEK TRIBUTARY RESTORATION PLAN AND PROFILE
- C-05 BLUFF CREEK CROSS SECTIONS
- L-01 REVEGETATION PLAN
- D-01 DETAILS - TYPICAL CHANNEL SECTIONS
- D-02 DETAILS - OUTFALL IMPROVEMENTS
- D-03 DETAILS - RESTORATION
- D-04 DETAILS - RESTORATION
- D-05 DETAILS - EROSION CONTROL

SYMBOLS AND ABBREVIATIONS:



GENERAL NOTES:

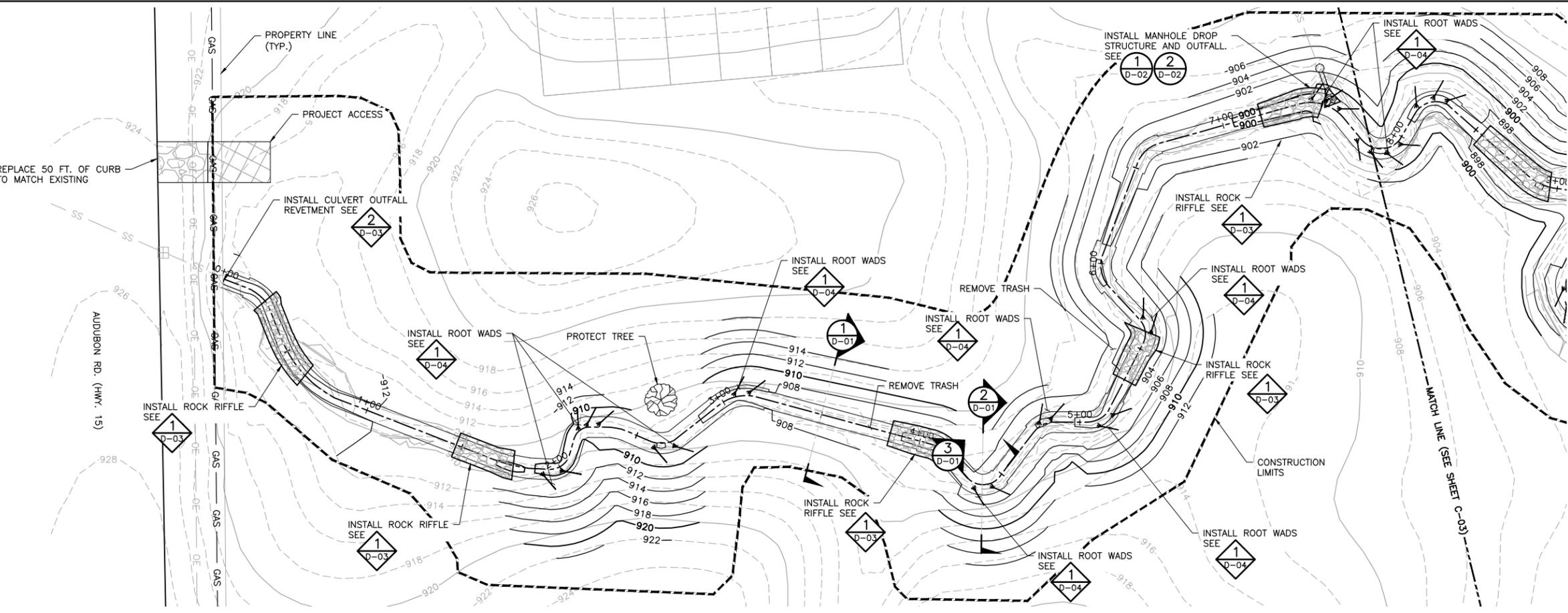
1. TOPO AND CONTROL GROUND SURVEY CONDUCTED BY BARR ENGINEERING CO. IN FEBRUARY 2017 AND IN HENNEPIN COUNTY FEET PROJECTION.
2. IMAGERY; COPYRIGHT PICTOMETRY INTERNATIONAL CORP AND HENNEPIN COUNTY, MINNESOTA, 2015.
3. ALL HORIZONTAL COORDINATES ARE HENNEPIN COUNTY NAD83. VERTICAL DATUM IS NAVD88.

**90% DESIGN
 ISSUED FOR PERMITTING**

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 UNDER THE LAWS OF THE STATE OF MINNESOTA.				CLIENT: 09/27/17 02/09/18				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				Scale: AS SHOWN		RILEY PURGATORY BLUFF CREEK WD CHANHASSEN, MINNESOTA		BLUFF CREEK RESTORATION HENNEPIN COUNTY, MN. TITLE SHEET AND INDEX		BARR PROJECT No. 23/27-0053.14	
PRINTED NAME: JEFFREY D. WEISS				CONSTRUCTION PERMITTING: 07/23/18								Date: 07/23/2018						CLIENT PROJECT No.	
SIGNATURE: _____				RELEASED TO/FOR: A B C 0 1 2 3				Drawn: EPF		DWG. No. G-01		REV. No. C							
DATE: 07/23/2018 LICENSE # 48031				DATE RELEASED: _____				Checked: AKH						DESIGNED FOR PERMITTING					
NO. BY CHK. APP. DATE REVISION DESCRIPTION								Designed: BARR		ISSUED FOR PERMITTING									
								Approved: JDW				90% DESIGN ISSUED FOR PERMITTING							

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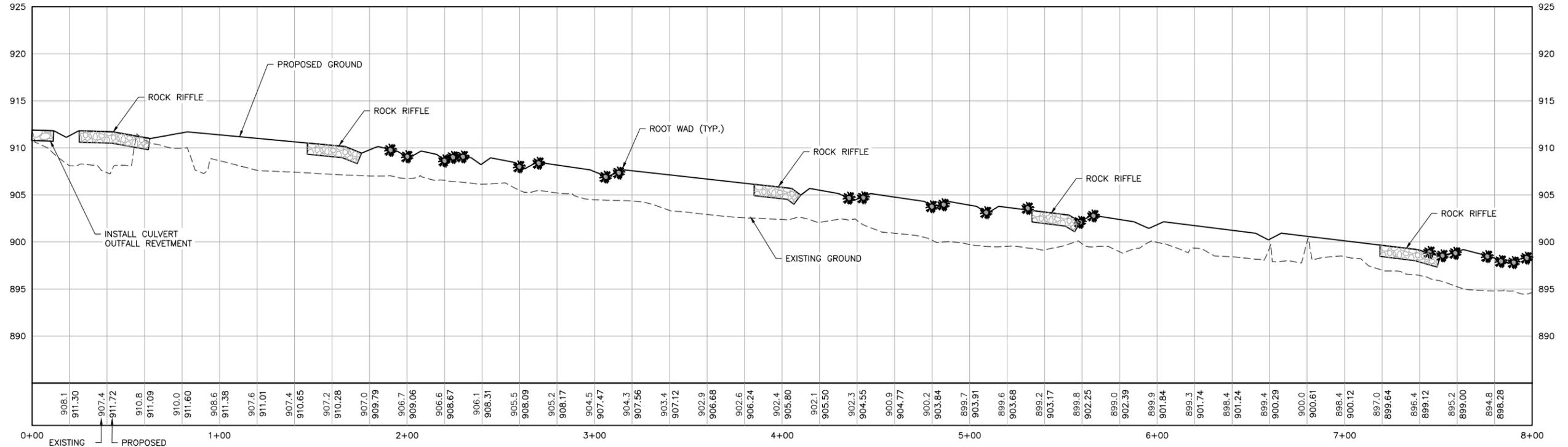


SYMBOL AND PATTERN LEGEND

- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- CONSTRUCTION LIMITS
- CITY STORM SEWER
- OVERHEAD ELECTRIC
- ROOT WAD
- ROCK RIFFLE

- NOTES**
1. CONTRACTOR IS RESPONSIBLE TO LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO WORK.
 2. ALL EXISTING ROADS, PARKING LOTS, TRAILS, FENCES, AND SIGNS SHALL BE PROTECTED DURING CONSTRUCTION.
 3. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL BMPs PRIOR TO COMMENCEMENT OF WORK.
 4. ALL GROUND DISTURBANCE SHALL BE STABILIZED AND RESTORED WITH A MINIMUM OF 6-INCHES OF TOPSOIL, SEED, AND EROSION CONTROL BLANKET. THE TOPSOIL USED FOR RESTORATION MAY BE STOCKPILED FROM GRADING AREAS.
 5. ALL PROPOSED CHANNEL AND OVERBANK SIDE SLOPES TO BE 3:1.
 6. TREES TO BE CLEARED OR PROTECTED WILL BE MARKED IN THE FIELD BY ENGINEER.
 7. TREES IDENTIFIED BY ENGINEER FOR PROTECTION SHALL BE PROTECTED AGAINST ROOT COMPACTION, DAMAGE, AND DISFIGUREMENT. CONTRACTOR SHALL PROTECT THESE TREES IN ACCORDANCE WITH MnDOT SPEC. 2572. PROTECTION OF TREES NOT IDENTIFIED TO BE REMOVED SHALL BE INCIDENTAL.
 8. TRASH, PRIMARILY CONSISTING OF METAL DEBRIS, TO BE REMOVED AS DISCOVERED IN PROJECT REACH.
 9. REMOVE AND DISPOSE OF ALL WOODY DEBRIS IN CHANNEL.
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1 PLAN: BLUFF CREEK (STA. 0+00 TO 8+00) 0 30 60 SCALE IN FEET



2 PROFILE: BLUFF CREEK (STA. 0+00 TO 8+00) 0 30 60 HORIZONTAL SCALE IN FEET 0 6 12 VERTICAL SCALE IN FEET

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ISSUED FOR PERMITTING**

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
C	EPF	AKH	JDW	07/23/2018	ISSUED FOR PERMITTING
B	EPF	AKH	JDW	02/09/2018	90% DESIGN
A	EPF	AKH	JDW	09/27/2017	ISSUED FOR REVIEW

CLIENT	08/27/17 02/09/18
BID	
CONSTRUCTION	
PERMITTING	07/23/18
RELEASED TO/FOR	A B C 0 1 2 3
DATE RELEASED	

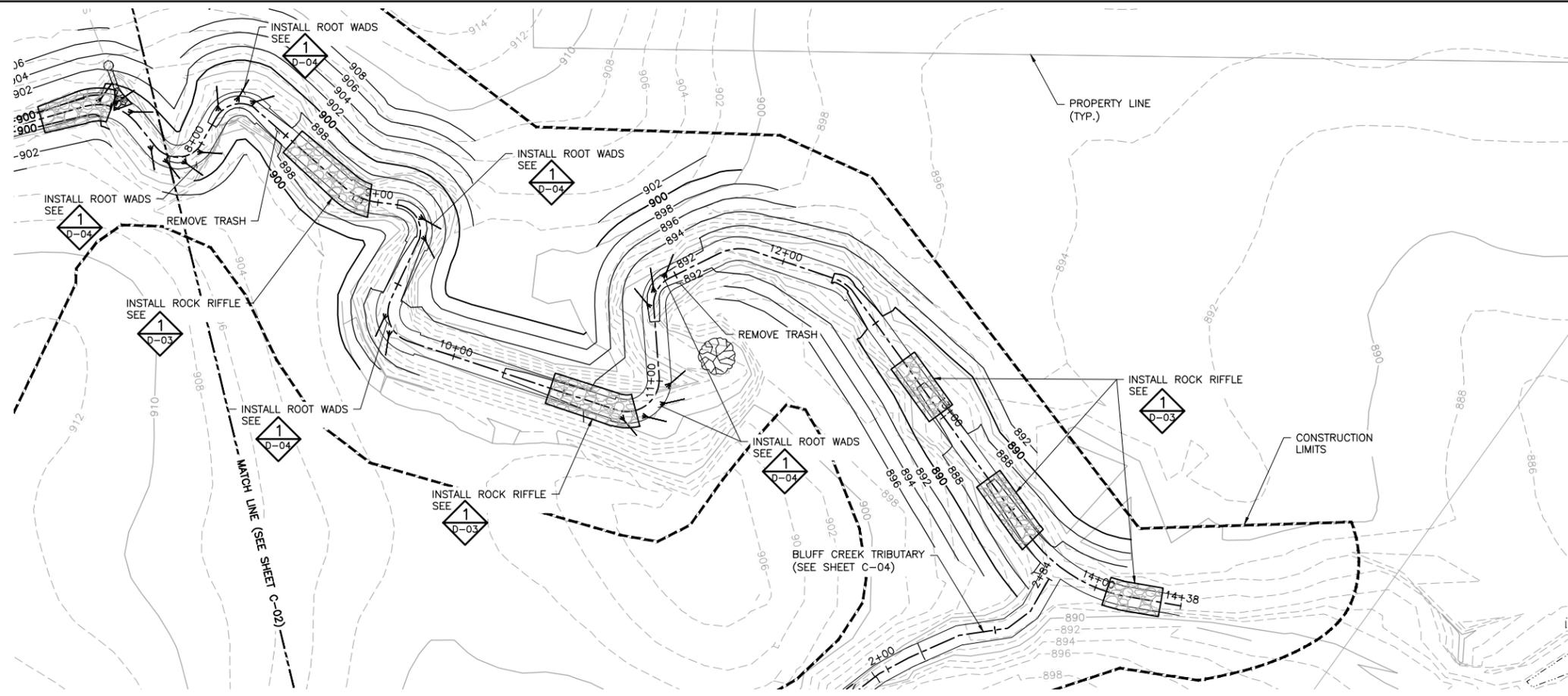
BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 Suite 200
 MINNEAPOLIS, MN 55435
 Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Fax: (952) 832-2601
 www.barr.com

Project Office:	AS SHOWN
Date:	07/23/2018
Drawn:	EPF
Checked:	AKH
Designed:	BARR
Approved:	JDW

**BLUFF CREEK RESTORATION
CARVER COUNTY, MN.**
**BLUFF CREEK RESTORATION PLAN & PROFILE
(STA. 0+00 TO 8+00)**

BARR PROJECT No.	23/27-0053.14
CLIENT PROJECT No.	
DWG. No.	C-02
REV. No.	C

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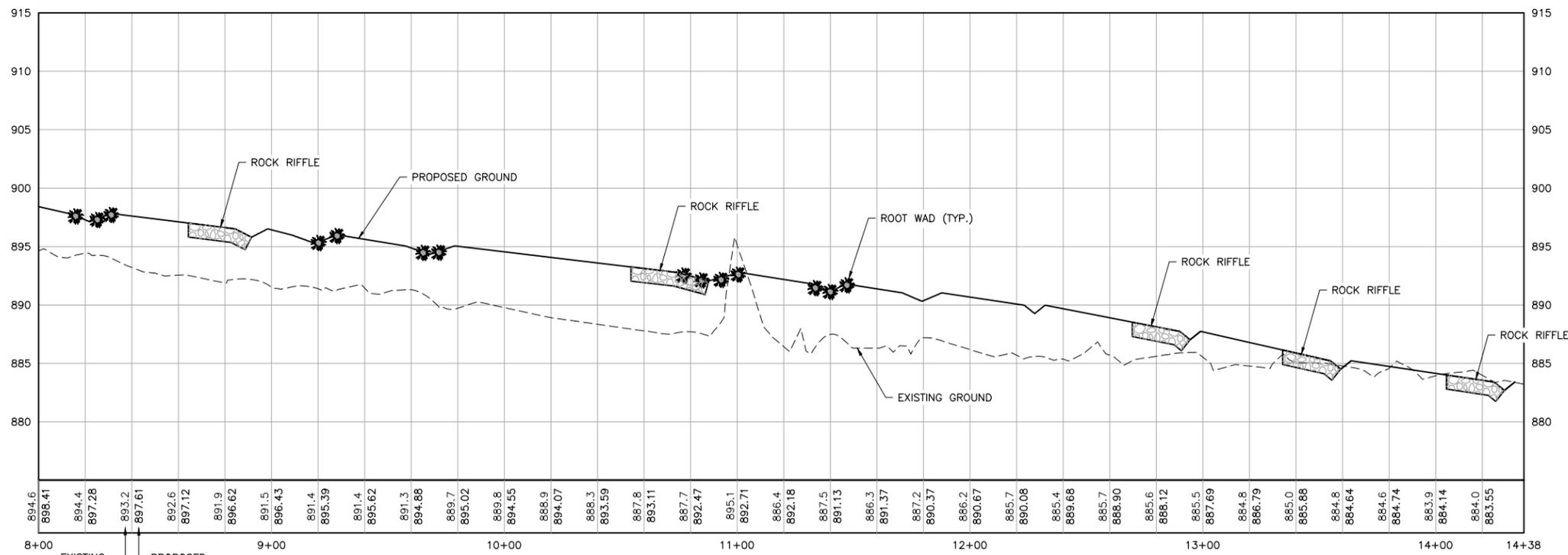


SYMBOL AND PATTERN LEGEND

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	EXISTING 2' CONTOUR
	PROPOSED 10' CONTOUR
	PROPOSED 2' CONTOUR
	CONSTRUCTION LIMITS
	CITY STORM SEWER
	CITY SANITARY SEWER
	ROOT WAD
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1 PLAN: BLUFF CREEK (STA. 8+00 TO 16+50) 0 30 60 SCALE IN FEET



2 PROFILE: BLUFF CREEK (STA. 8+00 TO 16+50) 0 30 60 HORIZONTAL SCALE IN FEET 0 6 12 VERTICAL SCALE IN FEET

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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
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A	EPF	AKH	JDW	09/27/2017	ISSUED FOR REVIEW

CLIENT	07/27/17	02/09/18							
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PERMITTING				07/23/18					
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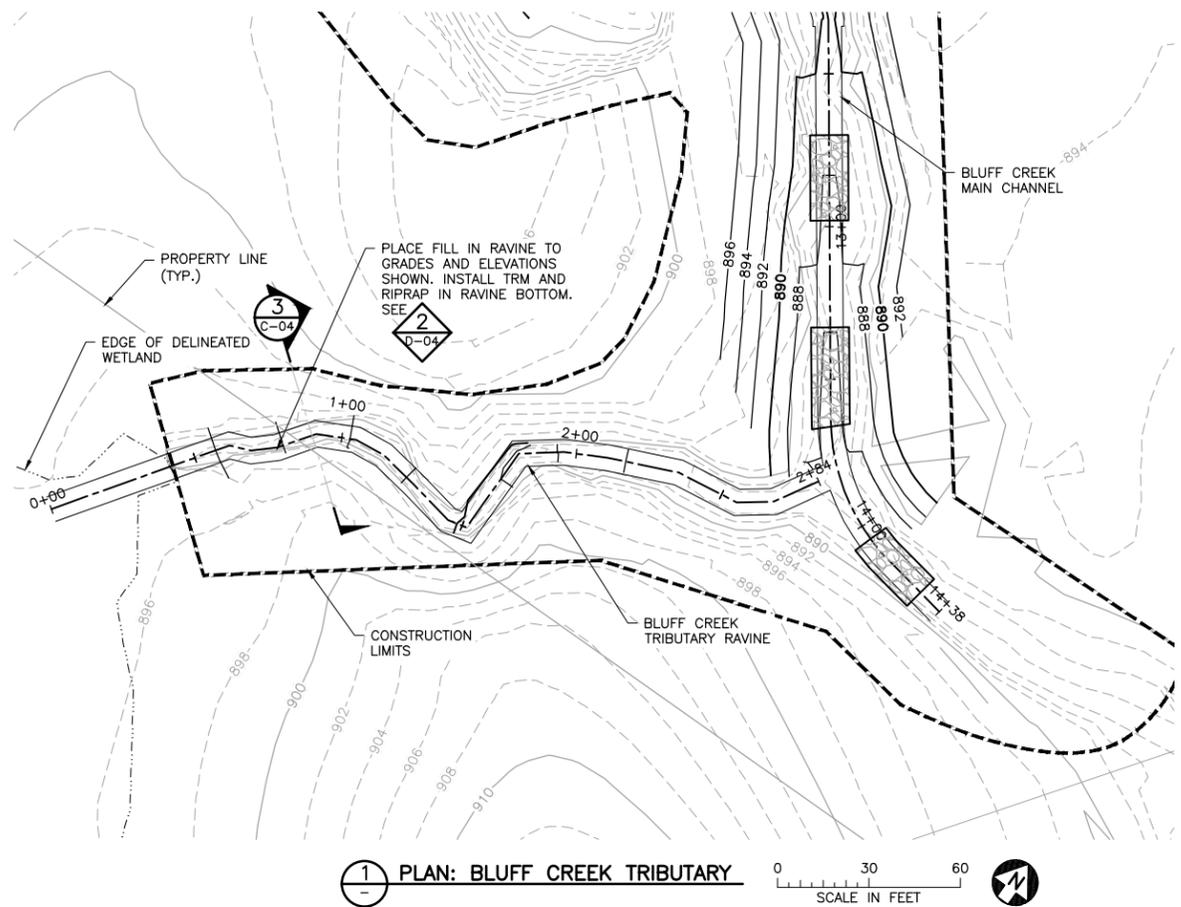
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Scale	AS SHOWN
Date	07/23/2018
Drawn	EPF
Checked	AKH
Designed	BARR
Approved	JDW

BLUFF CREEK RESTORATION
 CARVER COUNTY, MN.
BLUFF CREEK RESTORATION PLAN & PROFILE
 (STA. 8+00 TO 16+25)

BARR PROJECT No.	23/27-0053.14
CLIENT PROJECT No.	
DWG. No.	C-03
REV. No.	C

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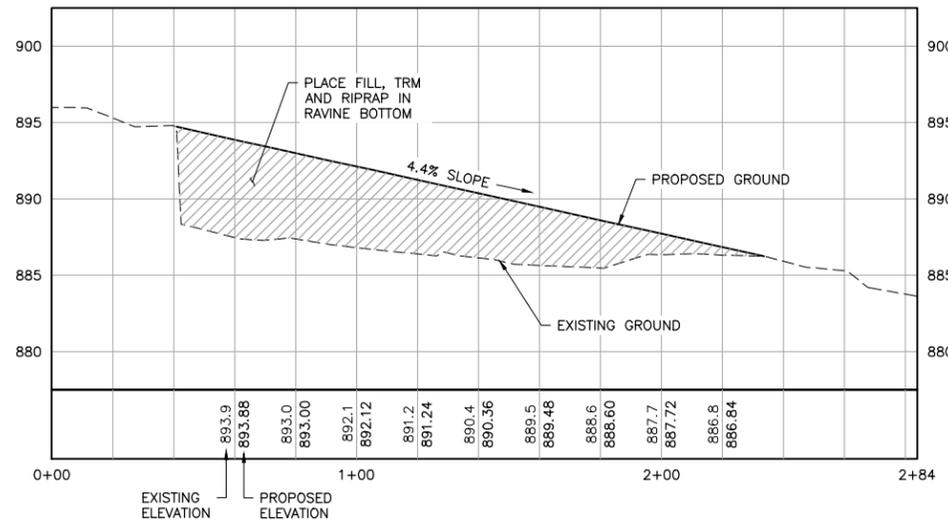


1 PLAN: BLUFF CREEK TRIBUTARY

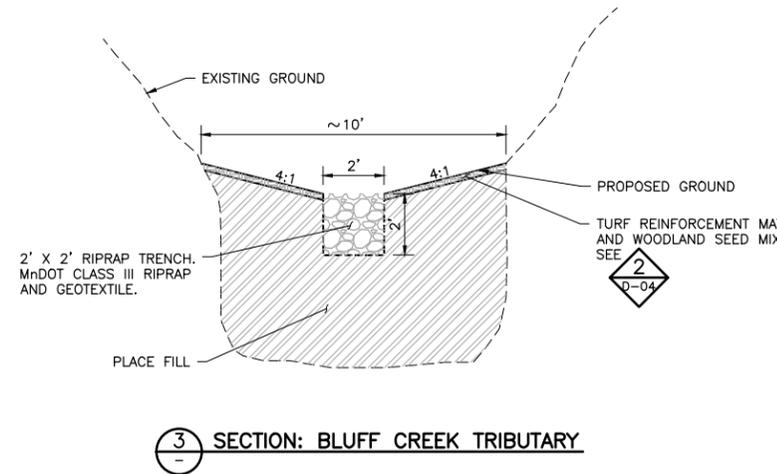
SYMBOL AND PATTERN LEGEND

	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	PROPOSED 10' CONTOUR
	PROPOSED 2' CONTOUR
	CONSTRUCTION LIMITS
	CITY STORM SEWER
	CITY SANITARY SEWER
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2 PROFILE: BLUFF CREEK TRIBUTARY



3 SECTION: BLUFF CREEK TRIBUTARY

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
C	EPF	AKH	JDW	07/23/2018	ISSUED FOR PERMITTING
B	EPF	AKH	JDW	02/09/2018	90% DESIGN
A	EPF	AKH	JDW	09/27/2017	ISSUED FOR REVIEW

CLIENT	07/27/17	02/09/18							
BID									
CONSTRUCTION									
PERMITTING				07/23/18					
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

BARR ENGINEERING CO.
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Scale	AS SHOWN
Date	07/23/2018
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Approved	JDW

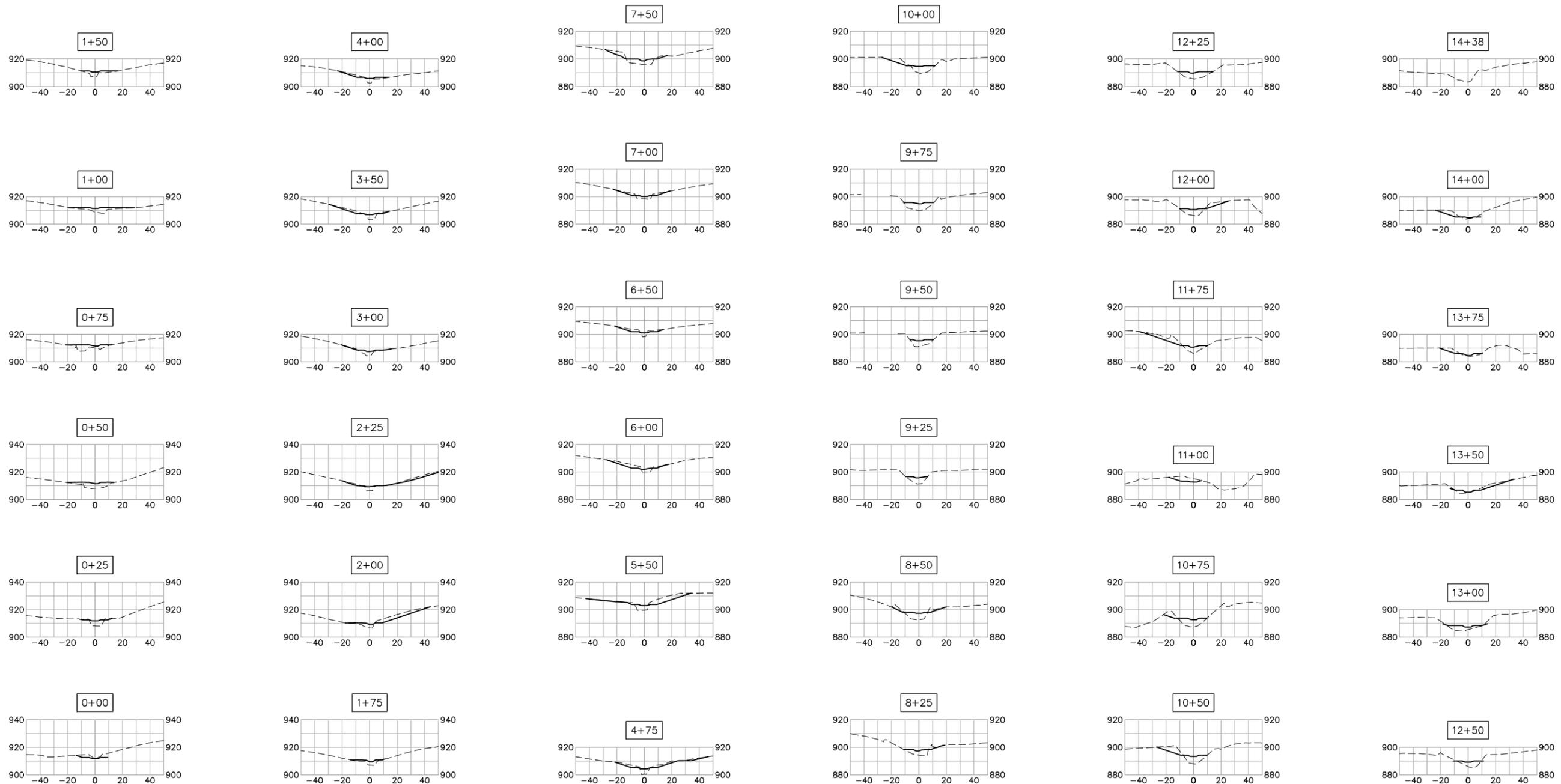
RILEY PURGATORY BLUFF CREEK WD
 CHANHASSEN, MINNESOTA

BLUFF CREEK RESTORATION
 CARVER COUNTY, MN.
BLUFF CREEK TRIBUTARY RESTORATION
 PLAN & PROFILE

BARR PROJECT No.	23/27-0053.14
CLIENT PROJECT No.	
DWG. No.	C-04
REV. No.	C

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1 SECTIONS: BLUFF CREEK (STA. 0+00 TO 14+38) 0 40 80 SCALE IN FEET

LEGEND
 - - - - - EXISTING GROUND
 _____ PROPOSED GROUND

**90% DESIGN
 ISSUED FOR PERMITTING**

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 UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: JEFFREY D. WEISS SIGNATURE: _____ DATE: 07/23/2018 LICENSE # 48031				CLIENT: 08/27/17 02/09/18 BID: _____ CONSTRUCTION: _____ PERMITTING: 07/23/18 RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED: _____				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				Scale: AS SHOWN Date: 07/23/2018 Drawn: EPF Checked: AKH Designed: BARR Approved: JDW				RILEY PURGATORY BLUFF CREEK WD CHANHASSEN, MINNESOTA				BLUFF CREEK RESTORATION CARVER COUNTY, MN. BLUFF CREEK RESTORATION SECTIONS (STA. 0+00 TO 14+38)				BARR PROJECT No. 23/27-0053.14 CLIENT PROJECT No. DWG. No. C-05 REV. No. C			
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION																						
C	EPF	AKH	JDW	07/23/2018	ISSUED FOR PERMITTING																						
B	EPF	AKH	JDW	02/09/2018	90% DESIGN																						
A	EPF	AKH	JDW	09/27/2017	ISSUED FOR REVIEW																						



Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers
From: Jeff Weiss
Subject: Purgatory Creek at Highway 101 Stabilization Project – Construction Documentation Summary
Date: September 27, 2018
Project: 23/27-0053.14-007
c: Claire Bleser – RPBCWD Administrator

The Purgatory Creek at Highway 101 Stabilization Project was constructed consistent with the Contract Documents (Attachment 1). No construction deviations or nonconformance items were identified during construction. Record construction drawings are included in Attachment 2. A photo sequence of construction is included in Attachment 3.

Part-time construction observation was performed by Barr Engineering Co. (Barr) through completion of the project. Construction observation tasks included observing and recording activities of Minnesota Native Landscapes (Contractor), answering questions, interpreting information contained in the Contract Documents as requested by the Contractor, and measuring quantities of installed materials. Barr also completed review of technical submittals, which are included in Attachment 4.

On October 5, 2016, the Contractor was given the Notice to Proceed with streambank stabilization at 13 specific sites along Purgatory Creek (Attachment 5). Construction activities began during the week of October 10, 2016 with brush and tree removal. There was a single construction entrance/exit at the upstream end of the project and the construction access route followed the creek. Therefore, the contractor proceeded at the downstream end of the project and stabilized each erosion site as they worked their way upstream. Construction activity with heavy equipment was completed by November 11, 2016, and buffer signs and live stakes were installed the following week. No work occurred between November 18, 2016 and May 15, 2017. Final planting of trees and shrubs was completed during the week of May 15, 2017. The one-year vegetation warranty period was then completed in May 2018. During the warranty period, the plants were inspected by City and Barr staff, and not replacements were required.

Two change orders were approved by the RBPCWD Managers (Attachment 6). Change Order #1 included the addition of cedar revetments to provide additional bank protection at two locations within the project area. The work to execute Change Order #1 was completed within the original construction window in October/November 2016. Change Order #2 included planting cedar trees in the construction entrance area to provide additional screening between residents and County Road 101 and to discourage foot traffic from the adjacent paved trail along CR 101. The cedar trees were installed during the week of September 4, 2018.

Construction activities were complete on November 18, 2016, with the exception of plant installation. Construction was performed in accordance with the contract documents prepared by Barr dated April 2016.

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers
From: Jeff Weiss
Subject: Purgatory Creek at Highway 101 Stabilization Project – Construction Documentation Summary
Date: September 27, 2018

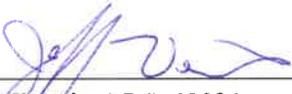
Page: 2

Attachments (submitted electronically to District Administrator)

- Attachment 1 – Contract Documents
- Attachment 2 - Record Drawings
- Attachment 3 - Construction Photo Sequence
- Attachment 4 - Contractor Submittals
- Attachment 5 – Notice to Proceed
- Attachment 6 – Change Orders
- Attachment 7 – Payment Applications
- Attachment 8 – Close Out Documentation
- Attachment 9 – Affidavits of Publication
- Attachment 10 – Cooperative Agreement

Certifications

I hereby certify that this report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.



Jeff Weiss PE #: 48031

September 27, 2018

Date

Minutes: Monday, September 17, 2018
RPBCWD Citizen's Advisory Committee Monthly Meeting
Location: RPBCWD offices: 18681 Lake Street, Chanhassen

CAC Members

Jim Boettcher	E	Curt Kobilarcsik	P	Marilynn Torkelson	P
Paul Bulger	P	Matt Lindon	E	Lori Tritz	P
Anne Deuring	P	Sharon McCotter	P		
Peter Iverson	P	Joan Palmquist	P		

Others

Maya Swope	RPBCWD staff	P
David Zeigler	RPBCWD Board Member	P
Terry Jeffery	RPBCWD Permits and Project Mgmt	P

Summary of key actions/motions for the Board of Managers:

1. We request the Board of Managers add the "Use of Native Plants" document (attached) to the cost share application
2. The CAC requests the Board direct the Administration to set up a meeting with the Eden Prairie School District to amend permit 2018-028 in order to adopt 'sustainability' opportunities, and potentially include District partner funding. Further, the CAC recommends the Board look for future opportunities when reviewing similar permit applications (attached).

I. Opening

- A. Call CAC meeting to Order: President Paul Bulger called the meeting to order at 6:01 p.m.
- B. Attendance: As noted above
- C. Matters of general public interest: None
- D. Approval of Agenda: Marilyn requested adding the MAWD conference to new business. Joan moved and Sharon seconded to approve the agenda as amended. Motion carried.
- E. Approval of August 20, 2018 CAC Meeting Minutes: Motion to approve minutes by Joan and seconded by Sharon. Motion carried.

II. Staff Reports

- A. Terry Jeffery reported that alum treatment began on Lotus Lake today. The Board of Managers is meeting on the preliminary budget and levy tonight. The district has decided to recommend the Capital Region WD data base. Our only recompense to Capital Region is acknowledgement. No other watershed district has expressed interest in partnering yet. The data base will replace paper files and will be queriable. Hopefully it will be in place by early April.
- B. Michele is coming back from maternity leave October 2.
- C. Maya Swope introduced herself, Outreach and Office Assistant. She has an environmental studies degree from Macalester College. She works with E&O and administration.

III. Old Business

- A. Updates from subcommittees
 Sharon reported the Chanhassen cleanup is October 27 with October 28 as the rain date. The Chanhassen Environmental Commission will help with coordinating depending on the turn out. More and wider effort is going into promotion this year.
- B. Residential Cost Share Application – Why Native Plants are Important
 Marilyn and Joan drafted a concise information piece encouraging the use of native plants in cost share projects, explaining the importance of natives. It could easily be inserted as a fourth page of the currently three-page cost share grant application. It would also easily adapt to the website. Sharon moved and Lori seconded to request the Board of Managers add this document to the cost share application. It will also be a useful tool for Seth when working with applicants. Terry suggested putting together a system for scoring applications including native plants as one metric, so projects using natives

would score higher. Cost effectiveness might be another metric. This could be a future CAC topic along with how to promote cost shares applications. Motion carried.

C. Board of Managers Meeting - September 5, 2018

Paul attended and summarized the decisions made on projects. Minutes will be posted on the website.

IV. New Business

- A. Budget: The public hearing on the budget and levy was happening at the same time as our meeting. The Board asked what discussion the CAC has had on the budget. The current CAC has not been as involved in the budget considerations as in past years when we reviewed project priorities and monthly reports.
- B. Adopt a Water/Creek/Lake/Shoreline Proposal: Sharon explained the concept of a group such as the CAC adopting a water body for two years and committing to keeping it clean. This is typically a twice a year effort with the local governing body providing supplies and picking up the resulting bags of trash. A suggestion was made that we choose a different city to work in every two years. It would be good visibility for the watershed district. It does not lend itself to unscheduled individual effort. There was definite interest from the CAC (and no one said they were not interested). Sharon will get the ball rolling by requesting more info from Madeline Seveland of Carver County.
- C. Permitting Database Update: As Terry reported in the staff report, we are getting a great product at a great price.
- D. Cost Share for Water Conservation – Lunch Presentation Recap: Paul reported that about 25 people attended the presentation by a representative of the City of Woodbury on their irrigation incentive programs. They have two programs – one commercial and one residential. While the auditing and tracking process is not ideal they have definitely realized water savings. Surprisingly Woodbury still enforces an odd-even watering ban even though the irrigation controllers could make that unnecessary. (And the science is in that odd-even watering bans actually increase water usage.)
- E. Website: The new website will be released after Michelle returns in October.
- F. Proposed CAC Statement – Opportunity Projects to Promote Sustainability Projects – Permit Review Process (see attached): Paul initiated this statement in response to the action taken by the Board of Managers on the Oak Point Elementary School Parking Lot project in Eden Prairie. While the project met the District rules we may have missed an opportunity for an Opportunity Project as provided for in our new 10-Year Plan. We want to encourage the Managers to be mindful of our mission. Discussion included the District going back to Oak Point Elementary and starting a conversation about the financial and physical Opportunities, the need to keep it simple, watching for other Opportunities that come up in the future. Joan moved and Pete seconded that with some modifications, the statement be submitted to the Board of Managers. It will be included in our minutes, with Paul presenting it on behalf of the CAC at the next Board meeting. The motion carried.
- G. MAWD: The annual Minnesota Association of Watershed Districts (MAWD) conference is Thursday through Saturday morning, November 29 – Dec. 1 in Alexandria, MN. Thursday is a “New Manager” presentation. Funding is available for CAC members to attend. Past attendees testified it is very informative and eye-opening on the diversity of water problems. Let Claire know if you’re interested.

IV. Upcoming Events

- A. RPBCWD Board of Managers meeting October 3 at 7:00 pm, 18681 Lake Drive East
- B. RPBCWD CAC meeting October 15 at 6:00 pm, 18681 Lake Drive East
- C. Cycle the Creek, September 29 – We will be cycling Riley Lake with lot of projects underway. A 10.8 mile leisurely pace and will take about 2 to 2.5 hours. Meet at the District office. Bring families. Email Maya or Terry to let them know you’re coming.
- D. Leaf clean up in Chanhassen October 27 with October 28 as rain date
www.ci.chanhassen.mn.us/cleanup
- E. Tree planting at Scenic Heights on October 6
- F. Topics for next month: Cost share

V. Adjourn CAC meeting: Motion to adjourn by Joan with second by Lori. Motion carried. Meeting adjourned at 7:49.

Use of Native Plants

Applicants are strongly encouraged to use as many native plants in their plans as possible.

What is a native? Native plants are just like they sound—plants that occur *naturally* in the region in which they evolved (without human intervention). Plants and animals that evolved together depend on each other in order to survive. Together they create an ecosystem—a complex network of relationships with each species' life cycle dependent on the others. Native plants are the basis of natural ecosystems, and protect biological diversity (biodiversity). As an example, entomologist Doug Tallamy's work shows that a native oak tree can support over 500 caterpillar species, whereas a ginkgo (a tree often used in landscaping which is imported from Asia), supports only 5 species. To put this in context—it takes 6,000 caterpillars to raise one brood of chickadees—so fewer caterpillars means fewer birds and so across the food web.

Why is planting natives important? As urbanization has occurred, native ecosystems have been disrupted and replaced with roads and houses—houses with manicured lawns which do not support a functioning ecosystem. When you plant natives, however, you preserve diversity and your patch of habitat helps to nurture and sustain living landscapes for birds and other animals.

What other benefits do they provide?

- **Reduce chemical use:** Natives have developed their own defenses against common pests and diseases, and once they are planted they do not need pesticides or fertilizers.
- **Conserve water:** Native plants are adapted to local conditions so they don't need extra watering once established. Deep roots control soil erosion and allows water to infiltrate, replenishing groundwater.
- **Support wildlife:** Many species of wildlife benefit from what natives provide—nectar for pollinators, protective shelter and nesting materials for animals, and the nuts, berries and seeds produced for food.
- **Sustainable:** Native plants have the genetic adaptability to survive and thrive in local conditions when matched to their natural growing conditions (right type of soil, light, and water). They promote soil health and sequester carbon.

How do you find out if something is a native? Ask your landscaping partner, or use online references to identify natives. Here are some specific resources:

- About Minnesota: https://files.dnr.state.mn.us/forestry/ecssilviculture/npc_plantID.pdf
- From National Wildlife Foundation: <https://www.nwf.org/NativePlantFinder/Plants>
- From Audubon Society <https://www.audubon.org/native-plants>
- A list of Native Plant Nurseries from Wild Ones: <http://prairieedge.wildones.org/wp-content/uploads/sites/31/2013/09/NativePlantNurseryListing.pdf>
- For help finding the best plant for your site conditions:
 - <https://www.minnesotawildflowers.info/>
 - http://www.bwsr.state.mn.us/native_vegetation/seeding_guidelines.pdf
 - <http://www.bwsr.state.mn.us/practices/pollinator/pollinator-tool4.pdf>
 - <https://www.prairienursery.com/store/native-plants>
 - <http://www.blue-thumb.org/plants/>

To: RPBCWD Managers and Administration

From: CAC

Date: 19 Sep 2018

RE: Opportunity Projects to Promoting Sustainability Projects – Permit Review Process

Purpose

The purpose of this memo is to encourage the RPBCWD Board to proactively identify and pursue Opportunity Projects that promote sustainability within the District. The CAC requests the Board direct the Administration to set up meeting with the Eden Prairie School District to amend permit 2018-028 in order to adopt 'sustainability' opportunities, and potentially include District partner funding. Further, the CAC recommends the Board look for future opportunities when reviewing similar permit applications.

Description

At the September Board meeting the Board approved Permit 2018-028, Oak Point Elementary School Parking Lot in Eden Prairie. This project proposes to build a new asphalt parking lot, which will be constructed on top of the current recreational ballfield. The project description and site map are attached for reference purposes.

The CAC acknowledges the applicant, Eden Prairie School District, met the requirements of RPBCWD rules. However, the CAC concurs with the one manager who stated concern that the project did not meet the 'spirit' of their desires for watershed stewardship. The factors listed below are consistent with the RPBCWD 10 Year Plan, and the CAC considers that this project represents a valuable "Opportunity Project", that would enhance the Watershed and promote watershed stewardship:

- Public Partner – The property is owned by the School District, and Eden Prairie Parks would be a suitable additional partner.
- City of Eden Prairie Sustainable Initiative – The City has an activity Sustainability Program and Conservation Commission promoting Water Conservation and Native Plant Landscaping
- Unique Location – Oak Point School is located adjacent to Purgatory Creek, several trail systems, Staring Lake Park, Staring Lake Outdoor Center, restored prairie across Staring Lake Parkway, and near Purgatory Creek Recreation Area. This represents a highly visible location, and the proximity to the creek warrants ecologically sustainable practices.
- Educational Opportunity – The site is located on school grounds and near the Outdoor Center. A demonstration project, possibly coupled with active monitoring of 'impacts' due to pavement, compartmented to turf grass or other landscaping represents a valuable learning opportunity.
- 10 Year Plan Goals and Objectives – There are multiple District goals and objectives that could be achieved with an alternative to asphalt parking lots. Selected goals cited in the Plan include:
 - Plan 2. Consider sustainability and the impacts of climate change in District projects, programs, and planning.
 - Plan S9. The District will seek to partner with cities, state agencies, and other entities to implement projects and programs to meet District goals.
 - EO S7. The District will provide resources to increase stewardship within the community.

- EO S8. The District will build community capacity by working with schools, lake associations, non-profits, volunteers, or other stakeholders to develop a network of watershed champions.
- Reg S4. The District will coordinate with appropriate cities and appropriate governmental bodies in the project/development review process
- WQual S3. The District encourages cities and developers to seek opportunities to incorporate habitat protection or enhancement into development and redevelopment projects.
- WQual S7. The District will promote the use of natural materials and bioengineering for the maintenance and restoration of shorelines and streambanks where appropriate.
- WQual S15. The District will cooperate with other entities to investigate treatment effectiveness of emerging pollutant removal practices.
- WQual S16. The District will work with the state agencies and local governmental units to identify emerging pollutants of concern.
- WQuan S9. The District will work with cities and other stakeholders to encourage conservation practices (e.g., infiltration basins, floodplain storage, water reuse) to protect creeks, lakes and wetlands.
- WQuan S10. The District will investigate alternatives to infiltration practices to promote volume reduction in areas not conducive to standard infiltration BMPs.

A preliminary review by the CAC has identified various alternatives to the proposed “new bituminous pavement, concrete curb and gutter, and storm sewer”. Further review by qualified District and Public Partner experts likely would identify additional alternatives and assess their feasibility.

1. Alternative Materials - Porous pavement or other eco-friendly alternatives to asphalt.
2. Surface Infiltration vs. Underground Infiltration - Use of bordering rain gardens, incorporating native plants and pollinator friendly habitat.
3. Student E&O Opportunities – Use the ‘alternative parking lot’ as a case study vs. adjacent asphalt parking lots. Potentially including:
 - a. infiltration rates comparing alternative materials, asphalt pavement, turf grass, rain garden infiltration basins
 - b. Future maintenance costs – alternative materials vs. asphalt over 5+ years
 - c. De-icing alternatives – assess usage of the different chemicals, collect supporting data

The CAC encourages the Board and Administration to reconsider amending the permit to include “best practices consistent with the 10 Year Plan”, potentially including use of E&O or cost share funds. In addition, we recommend the District identify similar ‘opportunity projects’ during future permit application reviews.

Sincerely,

CAC

Project Description

The proposed redevelopment includes the construction of a new park lot and reconstruction of the site entrance, including new bituminous pavement, concrete curb and gutter, and storm sewer on the Eden Prairie School property. An underground infiltration system will provide storm water rate, volume and quality control. Purgatory Creek runs through an adjacent property that is also owned by the school district. The project site information is summarized below:





September 27, 2018

Claire Bleser
District Administrator
Riley Purgatory Bluff Creek Watershed District
18681 Lake Drive E.
Chanhassen, Minnesota 55317

Dear Claire:

Enclosed please find the checks and Treasurer's Report for Riley Purgatory Bluff Creek Watershed District for the one month and eight months ending August 31, 2018.

Please examine these statements and if you have any questions or need additional copies, please call me.

Sincerely,

REDPATH AND COMPANY, LTD.

A handwritten signature in black ink, appearing to read "Mark Gibbs", is written over the typed name.

Mark C. Gibbs, CPA
Enclosure



To The Board of Managers
Riley Purgatory Bluff Creek Watershed District
18681 Lake Drive E.
Chanhassen, Minnesota 55317

Accountant's Opinion

The Riley Purgatory Bluff Creek Watershed District is responsible for the accompanying August 31, 2018 Treasurer's Report in the prescribed form. We have performed a compilation engagement in accordance with the Statements on Standards for Accounting and Review promulgated by the Accounting and Review Services Committee of AICPA. We did not audit or review the Treasurer's Report nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by the Riley Purgatory Bluff Creek Watershed District. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on the Treasurer's Report.

Reporting Process

The Treasurer's Report is presented in a prescribed form mandated by the Board of Managers and is not intended to be a presentation in accordance with accounting principles generally accepted in the United States of America. The reason the Board of Managers mandates a prescribed form instead of GAAP (Generally Accepted Accounting Principles) is this format gives the Board of Managers the financial information they need to make informed decisions as to the finances of the watershed.

GAAP basis reports would require certain reporting formats, adjustments to accrual basis and supplementary schedules to give the Board of Managers information they need, making GAAP reporting on a monthly basis extremely cost prohibitive. An independent auditing firm is retained each year to perform a full audit and issue an audited GAAP basis report. This annual report is submitted to the Minnesota State Auditor, as required by Statute, and to the Board of Water and Soil Resources.

The Treasurer's Report is presented on a modified accrual basis of accounting. Expenditures are accounted for when incurred. For example, payments listed on the Cash Disbursements report are included as expenses in the Treasurer's Report even though the actual payment is made subsequently. Revenues are accounted for on a cash basis and only reflected in the month received.

A handwritten signature in black ink that reads "RedPath and Company, Ltd." in a cursive script.

REDPATH AND COMPANY, LTD.
St. Paul, Minnesota
September 27, 2018

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Treasurers Report

August 31, 2018

REPORT INDEX

<u>Page #</u>	<u>Report Name</u>
1	Cash Disbursements
2	Fund Performance Analysis – Table 1
3	Multi-Year Project Performance Analysis – Table 2
4	Balance Sheet
5	Klein Bank VISA Activity

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Cash Disbursements

August 31, 2018

Accounts Payable:

<u>Check #</u>	<u>Payee</u>	<u>Amount</u>
4569	Barr Engineering	\$51,676.56
4570	BWSR	270.00
4571	CenterPoint Energy	14.85
4572	CenturyLink	560.10
4573	Coveral of the Twin Cities	427.36
4574	CSM Financial, LLC	7,353.70
4575	Duluth Nets	4,867.00
4576	ECM Publishers, Inc.	1,213.80
4577	HealthPartners	4,455.79
4578	Amy Herbert, LLC	996.00
4579	Iron Mountain	39.95
4580	Landbridge Ecological Services	6,750.00
4581	Lincoln National Life Insurance	896.42
4582	LMC Insurance Trust	16,485.00
4583	Metro Sales, Inc.	346.57
4584	Metropolitan Council	1,333.00
4585	Metro Conservation District	500.00
4586	Minnesota Native Landscapes	21,984.38
4587	Peterson Companies	136,862.35
4588	ProTech	236.56
4589	Purchase Power	24.14
4590	Redpath & Company	2,455.00
4591	RMB Environmental Laboratories	1,876.00
4592	RMB Environmental Laboratories	2,660.00
4593	Tracy Rust	5,000.00
4594	Smith Partners	19,803.53
4595	Southwest News Media	2,377.40
4596	Wenck, Inc.	2,905.26
4597	Xcel Energy	818.45
4598	Bongards Creameries	59,200.00
	Total Accounts Payable:	<u><u>\$354,389.17</u></u>

Payroll Disbursements:

Payroll Processing Fee	183.52
Employee Salaries	32,022.27
Employer Payroll Taxes	2,355.17
Employer Benefits (H.S.A. Match)	450.00
Employee Benefit Deductions	(345.18)
Staff Expense Reimbursements	521.80
PERA Match	1,695.48
Total Payroll Disbursements:	<u><u>\$36,883.06</u></u>

Ck. #4593/4598	Escrow Refunds	(64,200.00)
EFT	Klien Bank - VISA	4,216.19

TOTAL DISBURSEMENTS: **\$331,288.42**

Memos

The 2018 mileage rate is 54.5 per mile. The 2017 rate was .53.5.
Klein Bank VISA will be paid on-line.

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Fund Performance Analysis - Table 1
August 31, 2018

	2018 Budget	Fund Transfers	Revised 2018 Budget	Current Month	Year-to-Date	Year-to Date Percent of Budget
REVENUES						
Plan Implementation Levy	\$3,420,000.00		\$3,420,000.00	-	1,900,928.80	55.58%
Permit	20,000.00		20,000.00	11,100.00	86,951.50	434.76%
Grant Income	373,175.00		373,175.00	-	10,488.27	2.81%
Data Collection Income	-		-	-	171.78	---
Other Income	-		-	3,935.78	20,033.05	---
Investment Income	-		-	5,443.65	23,033.51	---
Past Levies	1,736,968.00		1,736,968.00	-	-	0.00%
Partner Funds	445,000.00		445,000.00	-	-	0.00%
TOTAL REVENUE	\$5,995,143.00	\$0.00	\$5,995,143.00	\$20,479.43	\$2,041,606.91	34.05%
EXPENDITURES						
Administration						
Accounting and Audit	40,000.00		40,000.00	2,638.52	30,742.37	76.86%
Advisory Committees	4,000.00		4,000.00	-	1,311.46	32.79%
Insurance and bonds	12,000.00		12,000.00	16,485.00	18,187.00	151.56%
Engineering Services	103,000.00		103,000.00	9,117.00	62,856.42	61.03%
Legal Services	75,000.00		75,000.00	10,872.26	35,328.52	47.10%
Manager Per Diem/Expense	19,000.00		19,000.00	-	2,215.09	11.66%
Dues and Publications	8,000.00		8,000.00	-	8,439.00	105.49%
Office Cost	100,000.00		100,000.00	10,479.24	87,679.97	87.68%
Permit Review and Inspection	90,000.00		90,000.00	17,568.17	122,626.89	136.25%
Recording Services	15,000.00		15,000.00	996.00	4,763.25	31.76%
Staff Cost	434,000.00		434,000.00	41,631.95	302,586.60	69.72%
Subtotal	\$900,000.00	\$0.00	\$900,000.00	\$109,788.14	\$676,736.57	75.19%
Programs and Projects						
District Wide						
10-year Management Plan	9,662.00		9,662.00	147.08	34,301.91	355.02%
AIS Inspection and early response	75,000.00		75,000.00	185.00	27,450.64	36.60%
Cost-share	200,000.00		200,000.00	927.00	9,550.21	4.78%
Creek Restoration Action Strategies Phase	20,000.00		20,000.00	-	-	0.00%
Data Collection and Monitoring	180,000.00		180,000.00	14,864.63	96,641.33	53.69%
District Wide Floodplain Evaluation - Atlas 14/SMM model	30,000.00		30,000.00	-	-	0.00%
Education and Outreach	115,000.00		115,000.00	2,996.13	72,760.03	63.27%
Plant Restoration - U of M	40,000.00		40,000.00	-	15,457.77	38.64%
Repair and Maintenance Fund *	177,005.00		177,005.00	-	-	0.00%
Survey and Analysis Fund *	13,464.00	(13,464.00)	-	-	-	---
Wetland Management*	150,000.00		150,000.00	249.02	25,502.22	17.00%
District Groundwater Assessment	-		-	-	166.38	---
Groundwater Conservation*	130,000.00		130,000.00	-	-	0.00%
Lake Vegetation Implementation	75,000.00		75,000.00	-	17,368.26	23.16%
Opportunity Project*	100,000.00		100,000.00	-	-	0.00%
TMDL - MPCA	10,000.00		10,000.00	-	-	0.00%
Stormwater Ponds - U of M	-	22,092.00	22,092.00	-	-	0.00%
Subtotal	\$1,325,131.00	\$8,628.00	\$1,333,759.00	\$19,368.86	\$299,198.75	22.43%
Bluff Creek						
Bluff Creek Tributary*	236,741.00		236,741.00	1,683.84	27,844.22	11.76%
Chanhassen High School *	282,478.00		282,478.00	50,696.84	86,067.81	30.47%
Subtotal	\$519,219.00	\$0.00	\$519,219.00	\$52,380.68	\$113,912.03	21.94%
Riley Creek						
Lake Riley - Alum Treatment*	22,424.00		22,424.00	-	17,423.96	77.70%
Lake Susan Improvement Phase 1 *	7,106.00		7,106.00	-	-	0.00%
Lake Susan Water Quality Improvement Phase 2 *	353,365.00	100,000.00	453,365.00	106,101.60	163,126.85	35.98%
Rice Marsh Lake in-lake phosphorus load	150,000.00		150,000.00	2,464.43	10,477.92	6.99%
Riley Creek Restoration (Reach E and D3) *	1,427,987.00		1,427,987.00	7,864.20	107,276.27	7.51%
Subtotal	\$1,960,882.00	\$100,000.00	\$2,060,882.00	\$116,430.23	\$298,305.00	14.47%
Purgatory Creek						
Fire Station 2 (Eden Prairie)	100,262.00		100,262.00	-	-	0.00%
Purgatory Creek Rec Area- Berm/retention area - feasibility/design	50,000.00		50,000.00	-	-	0.00%
Lotus Lake in-lake phosphorus load control	345,000.00		345,000.00	3,798.63	39,273.92	11.38%
Lotus Lake - Feasibility Phase 1	18,802.00		18,802.00	-	-	0.00%
Purgatory Creek at 101*	246,259.00	(100,000.00)	146,259.00	21,984.38	22,944.38	15.69%
Silver Lake Restoration - Feasibility Phase 1	11,003.00		11,003.00	-	7,857.50	71.41%
Scenic Heights	208,957.00		208,957.00	7,537.50	90,250.32	43.19%
Hyland Lake in-lake phosphorus load control	20,000.00		20,000.00	-	-	0.00%
Duck Lake watershed load	220,000.00		220,000.00	-	-	0.00%
Subtotal	\$1,220,283.00	(\$100,000.00)	\$1,120,283.00	\$33,320.51	\$160,326.12	14.31%
Reserve	\$99,628.00	(\$8,628.00)	91,000.00	-	-	0.00%
TOTAL EXPENDITURE	\$6,025,143.00	\$0.00	\$6,025,143.00	\$331,288.42	\$1,548,478.47	25.70%
EXCESS REVENUES OVER (UNDER) EXPENDITURES	(\$30,000.00)	\$0.00	(\$30,000.00)	(\$310,808.99)	\$493,128.44	

*Denotes Multi-Year Project - See Table 2 for details

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Multi-Year Project Performance Analysis - Table 2
August 31, 2018

Programs and Projects	Total Project	FUNDING SOURCE			Month Ended 08/31/18	Year To-Date	Lifetime Costs	Remaining
		District funds	Partner Fund	Grants				
District Wide								
10-year Management Plan	\$187,000.00	\$187,000.00	\$0.00	\$0.00	\$147.08	\$34,301.91	\$211,640.00	(\$24,640.00)
District Wide Floodplain Evaluation - Atlas 14/SMM model	30,000.00	30,000.00	-	-	-	-	-	30,000.00
Repair and Maintenance Fund	202,005.00	177,005.00	-	-	-	-	25,000.00	177,005.00
Survey and Analysis Fund	23,792.00	23,792.00	-	-	-	-	23,792.00	-
Wetland Management	150,000.00	150,000.00	-	-	249.02	25,502.22	25,502.22	124,497.78
Groundwater Conservation	130,000.00	130,000.00	-	-	-	-	-	130,000.00
Opportunity Project*	100,000.00	100,000.00	-	-	-	-	-	100,000.00
Stormwater Ponds - U of M	64,092.00	22,092.00	42,000.00	-	-	-	-	64,092.00
Subtotal	\$886,889.00	\$819,889.00	\$42,000.00	\$0.00	\$396.10	\$59,804.13	\$285,934.22	600,954.78
Bluff Creek								
Bluff Creek Tributary*	292,362.00	242,362.00	50,000.00	-	1,683.84	27,844.22	82,465.68	209,896.32
Chanhassen High School *	368,000.00	118,000.00	50,000.00	200,000.00	50,696.84	86,067.81	196,589.68	171,410.32
Subtotal	\$660,362.00	\$360,362.00	\$100,000.00	\$200,000.00	\$52,380.68	\$113,912.03	\$279,055.36	\$381,306.64
Riley Creek								
Lake Riley - Alum Treatment 1st dose *	260,000.00	260,000.00	-	-	-	17,423.96	254,999.83	5,000.17
Lake Susan Improvement Phase 1 *	275,000.00	275,000.00	-	-	-	-	267,894.28	7,105.72
Lake Susan Water Quality Improvement Phase 2 *	662,491.00	330,000.00	99,091.00	233,400.00	106,101.60	163,126.85	273,161.27	389,329.73
Rice Marsh Lake in-lake phosphorus load	150,000.00	150,000.00	-	-	2,464.43	10,477.92	10,477.92	139,522.08
Riley Creek Restoration (Reach E and D3) *	1,565,000.00	1,265,000.00	300,000.00	-	7,864.20	107,276.27	168,501.87	1,396,498.13
Subtotal	\$2,912,491.00	\$2,280,000.00	\$399,091.00	\$233,400.00	\$116,430.23	\$298,305.00	\$975,035.17	\$1,937,455.83
Purgatory Creek								
Fire Station 2 (Eden Prairie)	139,287.00	20,000.00	20,000.00	99,287.00	-	-	19,025.36	120,261.64
Purgatory Creek Rec Area- Berm/retention area - feasibility/design	50,000.00	50,000.00	-	-	-	-	-	50,000.00
Lotus Lake in-lake phosphorus load control	345,000.00	345,000.00	-	-	3,798.63	39,273.92	39,273.92	305,726.08
Purgatory Creek at 101*	561,094.00	561,094.00	-	-	21,984.38	22,944.38	437,779.98	123,314.02
Scenic Heights	260,000.00	165,000.00	45,000.00	50,000.00	7,537.50	90,250.32	141,293.26	118,706.74
Duck Lake watershed load	220,000.00	220,000.00	-	-	-	-	-	220,000.00
Subtotal	\$1,575,381.00	\$1,361,094.00	\$65,000.00	\$149,287.00	\$33,320.51	\$152,468.62	\$637,372.52	\$938,008.48
Total Multi-Year Project Costs	\$6,035,123.00	\$4,821,345.00	\$606,091.00	\$582,687.00	\$202,527.52	\$624,489.78	\$2,177,397.27	\$3,857,725.73

Riley Purgatory Bluff Creek Watershed District
Balance Sheet
As of August 31, 2018

ASSETS

Current Assets

General Checking-Klein	\$618,138.39
Checking-Klein/BMW	2,289,018.59
Investments-FMV	(761.77)
Investments-Standing Cash	21,456.78
Investments-Wells Fargo	2,921,890.67
Accrued Investment Interest	8,670.64
Due From Other Governments	154,436.00
Taxes Receivable-Delinquent	20,556.16
Pre-Paid Expense	38,906.63
Security Deposits	7,244.00

Total Current Assets: \$6,079,556.09

LIABILITIES AND CAPITAL

Current Liabilities

Accounts Payable	\$474,703.57
Retainage Payable	13,469.38
Salaries Payable	15,129.68
Permits & Sureties Payable	872,717.00
Deferred Revenue	20,556.16
Unavailable Revenue	6,666.16

Total Current Liabilities: \$1,403,241.95

Capital

Fund Balance-General	\$4,183,185.70
Net Income	493,128.44

Total Capital \$4,676,314.14

Total Liabilities & Capital \$6,079,556.09

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Klein Bank VISA Activity
August 31, 2018

DATE	PURCHASED FROM	AMOUNT	DESCRIPTION	ACCOUNT #	RECEIPT
08/10/18	Microsoft	107.53	Computer Software	10-00-4203	Y
08/17/18	Randy's Environmental Services	62.41	Office Trash Service	10-00-4215	Y
08/17/18	Dunn & Semington	578.00	Office Supplies	10-00-4200	Y
08/22/18	Amazon	334.05	Computer Software	10-00-4203	Y
08/23/18	Verizon	356.03	Telephone Expense	10-00-4240	Y
08/23/18	McAfee	42.94	Antivirus Software	10-00-4203	Y
08/24/18	Office Depot	21.05	Office Supplies	10-00-4200	Y
08/27/18	Crumb	153.76	Board Workshop	10-00-4205	Y
08/27/18	Target	157.27	Office Supplies	10-00-4200	Y
08/31/18	University of Minnesota	100.00	Climate Conference Registration	10-00-4265	Y
09/05/18	Crumb	40.21	Food for Board Workshop	10-00-4205	Y
09/05/18	Buca Di Beppo	279.85	Watershed District Database Meeting	10-00-4205	Y
09/05/18	Kowalski's	85.39	Board Workshop	10-00-4205	Y
09/07/18	Office Depot	26.70	Office Supplies	10-00-4200	Y
09/22/18	Verizon	349.30	Telephone Expense	10-00-4240	Y
		\$2,694.49	General Administration Total		
08/15/18	Michael's	8.04	AIS Education	20-08-4265	Y
08/15/18	Fleet Farm	78.37	Education Supplies	20-08-4265	Y
08/16/18	SuperAmerica	100.00	Gas for Vehicle	20-05-4322	Y
08/17/18	Aztec BP	61.72	Gas for Vehicle	20-05-4322	Y
08/17/18	SW Metro Chamber of Commerce	287.50	Dues & Memberships	20-08-4245	Y
08/17/18	SW Metro Chamber of Commerce	50.00	Publications	20-08-4250	Y
08/17/18	USPS	3.95	Postage	30-02-4280	Y
08/22/18	Amazon	54.17	Data Collection Supplies	20-05-4260	Y
08/23/18	UMISC-NAISMA	302.00	AIS Education	20-02-4265	Y
08/29/18	Cub	65.65	Food for Training	20-08-4205	Y
08/29/18	AWRA	354.00	Conference Registration	20-08-4265	Y
08/31/18	Lions Tap	46.13	Team Regroup	20-05-4205	Y
08/30/18	Crumb	398.70	Winter Training	20-08-4205	Y
08/30/18	Fleet Farm	25.51	Data Collection Supplies	20-05-4260	Y
08/30/18	Bruegger's	29.98	Winter Training	20-08-4205	Y
09/04/18	General Delivery Service	55.22	Data Collection Sample Transport	20-05-4280	Y
09/05/18	Breezy Point Resort	168.56	Conference Hotel	20-08-4265	Y
09/05/18	Breezy Point Resort	168.56	Conference Hotel	20-13-4265	Y
09/06/18	Hologram	50.00	Data Collection Supplies	20-05-4201	Y
09/07/18	Bruegger's	22.78	Education Meeting Supplies	20-08-4205	Y
09/07/18	Amazon	58.00	Data Collection Supplies	20-05-4260	Y
09/07/18	Amazon	82.69	Data Collection Supplies	20-05-4260	Y
09/07/18	Amazon	672.29	Data Collection Supplies	20-05-4201	Y
09/07/18	Amazon	159.95	Data Collection Supplies	20-05-4201	Y
09/11/18	Holiday Station	61.01	Gas for Vehicle	20-05-4322	Y
09/12/18	Cub	31.92	Lunch & Learn Workshop	20-08-4205	Y
09/13/18	Pearl Izumi	115.00	Outreach Supplies for Event	20-08-4205	Y
09/14/18	Buca Di Beppo	303.89	Lunch & Learn Workshop	20-08-4205	Y
09/14/18	Holiday Station	80.52	Gas for Vehicle	20-05-4322	Y
09/14/18	Home Depot	93.07	Data Collection Supplies	20-05-4260	Y
09/18/18	Amazon	313.50	Data Collection Supplies	20-05-4201	Y
09/18/18	Vacker Sign	727.00	Education Signage	20-08-4275	Y
		\$5,029.68	District-Wide Total		
		\$7,724.17	GRAND TOTAL		

TASK ORDER No. 25 – Duck Lake Water Quality Improvement Project
Pursuant to Agreement for Engineering Services
Riley Purgatory Bluff Creek Watershed District and BARR Engineering Company.
September 27, 2018

This Task Order is issued pursuant to Section 1 of the above-cited engineering services agreement between the Riley Purgatory Bluff Creek Watershed District (RPBCWD) and BARR Engineering Company (Engineer) and incorporated as a part thereof.

A. Description of Services:

The RPBCWD's 2018 Watershed Management Plan (Planning for the Next 10 Years 2018-2027; Plan) and 2018 budget identified the Duck Lake DL_3 phosphorus load reduction project for implementation in 2018. RPBCWD staff attempted to coordinate this potential project with the city of Eden Prairie's planned reconstruction of Duck Lake Road. The City's current plan is to construct stormwater management facilities that are sufficient solely for their road reconstruction project needs rather than coordinating with the potential RPBCWD load reduction project. Therefore, RPBCWD staff identified a need for a subwatershed assessment and project implementation to identify and construct effective projects within the Duck Lake watershed to achieve the goals outlined in the 10-year plan.

Following the capital improvement process in the 10-year plan, we are presenting a phased approach to implement this project. This project would be completed in two phases:

Phase 1 – Assessment - Engineer will provide engineering services to identify opportunities for alternative stormwater management best management practices (BMPs) within the Duck Lake watershed. Potential stormwater BMPs include but are not limited to rain gardens, infiltration/filtration basins, stormwater runoff storage and reuse, permeable pavement systems, and impervious surface reduction practices. Engineer will identify potential BMP locations and provide prioritization information for the identified locations. Engineer will assist RPBCWD staff in conducting a public outreach program to identify landowners who are willing to accommodate a stormwater BMP that could be constructed during the 2019 construction season. Engineer will then prepare a memorandum to the Board of Managers summarizing the assessment methodology and estimating the costs and benefits of the identified BMPs. This will allow the Board to make an informed decision to proceed with Phase 2 based on sound science.

Phase 2 – Final Design and Construction Administration (future) – Assuming the project is ordered by the Board of Managers, Engineer will provide final design plans, specifications, and construction observation for the BMPs identified in Phase 1. An updated task order scope, schedule, and budget for Final Design and Construction Administration will be developed once the number and types of viable projects are determined and approved by the Board of Managers. For the budgeting purposes of this Task Order, Engineer assumes that the goal of the project will be to install 15 right-of-way rain gardens, one regional infiltration basin, 5,000 square yards of permeable pavement (4 residential driveways), and 5 turf reduction/native plantings.

B. Scope of Services:

Phase 1 – Assessment

Task 1. Kick-off Meeting and Regular Project Meetings

- a. Conduct a project kick-off meeting with RPBCWD staff to determine overall project goals, projected timeline and anticipated budgets for project implementation.
- b. Conduct up to three (3) project meetings at the RPBCWD office of up to one hour each to coordinate with and inform RPBCWD staff regarding project progress.

Task 2. Desktop Assessment

- a. Obtain and organize available GIS mapping data, including, but not limited to topography, property boundaries, available utility information, and soils information.
- b. Identify site characteristics important for BMP effectiveness, including, but not limited to location within the catchment area, property size and imperviousness, and green spaces adjacent to impervious surfaces.
- c. Identify potential locations for field assessments and create field assessment tools utilizing ArcGIS iPad Collector application technology.
- d. Create data input interface for ArcGIS iPad Collector application field assessments.

Task 3. Field Assessment and BMP Prioritization

- a. Work with RPBCWD staff to create a property owner notification strategy such as an informative mailer in advance of any field assessments (project meeting #1).
- b. Conduct a field assessment of the Duck Lake watershed. Use the Collector application to record potential BMP locations, setting unique data pins for each site and recording relevant decision-making data regarding site suitability for a BMP.
- c. Rank BMP locations to create a prioritization strategy. The prioritization strategy will weigh BMP characteristics such as type, general visibility, likely property owner concessions to allow for construction (removal of landscaping), and estimated water quality benefits.
- d. Meet with RPBCWD staff to generate a list of primary and secondary BMP projects that will be used to direct targeted outreach and property owner education (project meeting #2).

Task 4. Property Owner Outreach and Education

- a. Provide project narrative write-ups for use on the RPBCWD website and other communications as needed for potential BMP hosts in the project area.
- b. Create high level, simplistic, hand-drawn conceptual sketches of the proposed BMP to help property owners visualize where the BMP would be located and its general extents. This sketch could be overlaid on available aerial imagery and provided to RPBCWD staff for their meetings with property owners.
- c. Assist RPBCWD staff in creating a strategy for encouraging property owners to host a BMP on their property (project meeting #3).

Task 5. Summary Memorandum and Presentation

- a. Engineer will provide a summary memorandum that briefly describes the methodology used to identify potential BMP sites, the public outreach results, concept level estimates of

- construction costs, and the projected effectiveness (volume reduction, TSS removal, and TP removal) for BMP sites with willing property owners.
- b. Engineer will prepare a PowerPoint summary and present the summary at a regular RPBCWD Board of Managers meeting.

Phase 1 Assumptions

- a. Engineer will prepare one (1) presentation for the RPBCWD Board of Managers.
- b. RPBCWD staff will be responsible for all coordination and meetings with property owners, including the city of Eden Prairie. To be as efficient with RPBCWD resources and maximize staff involvement as possible, the current budget assumptions exclude Engineer's participation in meetings with property owners.
- c. RPBCWD staff or legal counsel will be responsible for the development of property owner agreements based on the current cost share agreement.

Phase 2 – Final Design and Construction Administration (conceptual future work scope)

The Phase 2 work scope and budget would be revisited after the project is better defined following Phase 1 completion, assuming the Board elects to pursue implementation

Task 6. Preliminary (60%) Design and Opinion of Probable Cost

- a. Engineer will create conceptual BMP plans in CAD for those BMPs with willing property owners identified in Phase 1. Engineer will provide the concept plans to RPBCWD staff for comment and approval.
- b. Engineer will perform one revision of the conceptual plans in response to RPBCWD staff comments.
- c. Engineer will meet with property owners and RPBCWD staff to review the conceptual plans.
- d. Engineer will perform one revision of the conceptual plans in response to property owner comments. (Revisions that affect functionality of the BMP will be presented to RPBCWD staff for review and comment.)
- e. Engineer will create 60% construction drawings, incorporating property owner comments where necessary and appropriate.
- f. Engineer will provide construction opinions of probable cost based on the 60% construction drawings.
- g. Engineer will create a preliminary bid form and specifications.

Task 7. Final Design, Quote Assistance, and Construction Observation

- a. Engineer will provide final construction drawings and specifications. Engineer will provide technical specifications and a project bid form for the project. Engineer will develop technical specification sections using Construction Specifications Institute (CSI) format including all "upfront" sections such as general conditions, supplementary conditions, summary of work and those related to bidding and contracting. Engineer assumes specifications will be in CSI format with Engineers Joint Contract Documents Committee (EJCDC) general conditions. Engineer reserves the right to modify budget if technical specification format is other than stated in this paragraph. It is assumed that RPBCWD Counsel will provide one round of edits and review comments.
- b. Assuming the engineer's opinion of probable construction cost is less than \$175,000, Engineer will assist the RPBCWD in requesting quotes from up to three qualified contractors

- in lieu of the public bidding project as allowed for by the recent change in threshold in Minnesota law for required bidding for contracts for public capital projects.
- c. Engineer will provide construction observation to oversee implementation of plans and specifications.
 - d. Engineer will provide monthly construction updates including progress reports and construction photos to RPBCWD staff.

Task 8. Develop Stakeholder Agreements

RPBCWD staff will coordinate with the individual property owner and/or city of Eden Prairie to assist RPBCWD legal counsel in developing the needed access and maintenance agreements regarding the Project design, construction and maintenance. RPBCWD staff and counsel will lead this task. Engineer will provide up to 2 hours of technical support during the development of the agreement.

Phase 2 Assumptions

- a. Construction will not trigger RPBCWD or City permitting requirements.
- b. Post-construction survey, record drawings and construction documentation report are excluded from this scope of work
- c. Soil borings are not included in this proposal. If needed, borings will be contracted separately and billed to the RPBCWD. Engineer will assist in the selection of a soil testing contractor and direct their work.
- c. The opinion of probable construction cost for the project will be less than \$175,000, thus allowing quote solicitation rather than public bidding.
- d. Up to 2 hours of technical support for stakeholder agreements
- e. Total time required to complete construction administration (field observation, payment application processing, response to questions, etc.) will not exceed 50 hours.

Additional Assumptions

Engineer has made several assumptions scope of work items in this agreement. Assumptions relating to individual work tasks are listed above in the task detailed descriptions. However, additional assumptions that do not correspond with a single work task are listed below:

- a. Property access and/or easement services are not included. If property acquisition/easements are needed, those services will be coordinated with the RPBCWD Administrator on a time and expense basis.
- b. The proposed budget includes mileage reimbursement expenses for site visits and site observation.
- c. RPBCWD staff will provide all available and applicable GIS and CAD files to Engineer in an electronic format.
- d. Preparation of a phase 1 environmental assessment is not included.
- e. Preparation of an Environmental Assessment Worksheet (EAW) or Environmental Impact Statement is not included.

C. Deliverables:

The following Phase 1 deliverables will be prepared and provided by Engineer to the RPBCWD:

- a. ArcGIS Collector iPad application mapping tool with customized data input menus
- b. Informational flyer and project description for property owner outreach and RPBCWD website broadcasting
- c. Summary memorandum that describes the methodology used to identify potential BMP sites, the public outreach results, and concept level estimates of construction costs and pollutant removal for BMP sites with willing property owners.

D. Budget:

Services under Phase 1 of Task Order 25 will be compensated for in accordance with the engineering services agreement and will not exceed \$18,000 without written authorization by the Administrator or Board of Managers. The following table provides a breakdown of the anticipated cost for major tasks associated with scope of services describe above.

Table 1. Phase 1 Estimated Engineering Services Budget

Task	Task Description	Anticipated Budget	Anticipated Completion Date
Phase 1			
1	Kick-off Meeting and Project Meetings	\$ 3,800	Early October 2018 (Kick-off Meeting)
2	Desktop Assessment	\$ 2,000	Mid-October 2018
3	Field Assessment	\$ 3,000	Mid-November 2018
4	Outreach assistance to RPBCWD staff	\$3,700	February 2019
5	Summary memorandum and presentation	\$ 4,200	March 2019
--	Project Management and Quality Control	\$ 1,300	--
Phase 1 Total		\$ 18,000	

Table 2. Conceptual Future Phase 2 Engineering Services Budget

Task	Task Description	Anticipated Budget	Anticipated Completion Date
Phase 2			
6	60% Design and Cost Estimate	\$19,000	Summer 2019
7	Final Design, Bidding Assistance, and Construction Observation	\$21,000	Fall 2019
8	Technical Support to Develop Shareholder Agreements	\$ 400	Fall 2019
--	Project Management and Quality Control	\$ 4,600	--
Phase 2 Total		\$45,000	

E. Schedule and Assumptions Upon Which Schedule is Based

The proposed schedule (above) is assumes authorization of Phase 1 will occur on October 3, 2018. The schedule may be modified depending on actual initiation of project work, permit approvals, and stakeholder coordination efforts. Engineer will work with RPBCWD staff to refine the schedule as information-gathering and property owner meetings progress.

IN WITNESS WHEREOF, intending to be legally bound, the parties hereto execute and deliver Phase 1 of this Agreement.

CONSULTANT

**RILEY PURGATORY BLUFF CREEK
WATERSHED DISTRICT**

By _____

By _____

Its Vice President _____

Its _____

Date:

Date:

APPROVED AS TO FORM & EXECUTION

Friday, September 28, 2018

To: Board of Managers

Re: Prairie 5th Association Cost-Share Application

Dear Managers,

Included in your packet is the response to the questions you have asked from the applicant. At this time, Staff recommends denial of the cost-share application as we need direction from the board in regards to the acceptable practices for the cost-share program. For example, should cost-share dollars be going to irrigation systems or practices that are more self-reliant such as using cisterns or rain barrels. The recent denial of the Eden Prairie School application conversion of turf to pervious surface raises the need to identify when best management practices can be implemented in terms of sequence.

For example, going from turf to pervious pavers is better than going to entirely impervious. However, the preferred would have been going from turf to native plants. Similarly going from irrigation system to smart sensors conserves groundwater but the preferred best practice would be to not irrigate. Staff proposes clarify that sequence and present to the board for board approval. Staff also proposes that a groundwater conservation program be developed in cooperation with the cities and input from the CAC independently from the cost-share program.

Staff recommends that the board denies the cost-share application from Prairie 5th but invite the applicant to apply next year. Staff also recommends that board direct staff to develop a sequence of acceptable practices and develops a groundwater conservation program independent of the cost-share program.

Sincerely,



Claire Bleser



No-Stress Gardening and Landscapes LLC

16526 W 78th Street #342, Eden Prairie MN 55346

Phone: (612) 250-2048

Web: www.nostressgardening.com

E-Mail: nostress@nostressgardening.com

DATE: 20 August 2018

**TO: Claire Bleser, District Administrator – Riley Purgatory Bluff Creek Watershed District
Members of the Board of Mangers - Riley Purgatory Bluff Creek Watershed District**

**RE: Prairie East Fifth Association Cost Share Grant Application
Response to Follow-Up Questions of 17 August 2018**

This memo is a response to a second set of technical questions posed in your email of Friday, 17 August 2018.

**1. The cost of the units seemed to be high and would like to see to other bids.
Would it be possible to see two other bids?**

The simple answer is “no”. While there has been extensive analysis done on options and costs, no individual line-items (for example, controllers) would be meaningful or comparable without context. The Project you are considering is reflective of that comprehensive process.

No-Stress Gardening and Landscapes was retained by the Prairie East Fifth Association to evaluate their existing irrigation system and site, identify objectives to be incorporated into a Master Maintenance Plan, investigate and research options for upgrading their irrigation system to meet desired objectives, and prepare a budget for the capitol and ongoing maintenance costs. This process began last summer (2017) and is on-going. It has been extensive and complex. It has included review of technologies, vendors and approaches to sources of power. The project presented to you is the result of that process as reviewed by the Prairie East Fifth Board. The specifications include the most effective technology and skilled and experienced irrigation contractor available in our market-place for this project. Cost-effectiveness and economic viability (life-cycle costs & return) are essential criteria in the Prairie East Fifth’s Board evaluation process.

Answers to the following questions also help address the specifications of the controllers and resulting cost. To avoid redundancy, they are not duplicated here.

2. The City of Woodbury has a grant program where they provide up to \$8,000. In discussing with the coordinator at the City, it seems that applicants are utilizing controllers that range between \$500 and \$2000. Could we see the cost details of the units? The units that you are proposing are 4 times more and the managers are wondering what are the cost of the controllers alone on your system.

The cost of each irrigation controller unit is \$8,311.57. They are custom manufactured upon order and they are sold as a single unit. Individual component prices are not available. The components included in this unit are specified on Page 3 of your Cost Share Application (Project Budget). There was one component that I failed to list in that Budget Page, and that is the fact that the Wireless Air-Card includes unlimited, lifetime data and on-line access to the cloud-based, smart-controller services. Extensive, detailed information has been provided on what components and functions are included with each unit. This information is included in a comprehensive Addendum C (Technical Specifications) attached to the original application.

While it is true the City of Woodbury has a relatively new commercial irrigation cost share program, it is important to understand that they have undertaken a comprehensive approach to influencing irrigation water use throughout the city on both residential and commercial sites (private). This comprehensive approach informs their policies and programs. It is also true that the City of Woodbury will tell you that they have supported installation of controllers ranging from \$500.00 to \$2,000.00 with a maximum project contribution of \$8,000.00 (utilizing a 50% match). The program coordinator, Kristin Seaman, was also quick to emphasize they have learned that every commercial site is unique with vast differences in size, scope, needs, existing infrastructure, etc. It is in these differences that costs will also vary significantly. She could not speak to or opine on the cost of the controllers specified for this project due to those variables.

It is also not possible for us to know the factors and conditions that contributed to the varied range of controller and overall project costs incurred within the City of Woodbury's program experience. However, I can restate at least some of the existing and relatively unique conditions of the Prairie East Fifth project that have resulted in the recommended specifications:

- Size and configuration of the Association. The Prairie East site covers a total of 15 acres with 7.5 acres of turf and trees. The Association is transected by PUBLIC streets, not private, resulting in utility access limitations by the City of Eden Prairie. The city prohibits intersecting the public street with private utilities. (Overview map is on Page 1 of your Application.
- The Association was developed in the mid-70s and did NOT include an in-ground irrigation system. This is part of why there is no existing under-street access to utilize. More recent developments either have private roadways and/or under-street access is included in the initial build-out.
- In-ground irrigation requires one controller per water tap (access). Because we are not able to connect segments of the Association under the street, this project requires 3 controllers for three separate water taps.
- The Association is comprised of twenty 4-plexes which all individually owned. There is no independent Association-owned building with utilities, such as electricity or internet (wi-fi), that can be directly accessed for Association-specific purposes.
 - Options for extending electricity from existing transformers to the controller stations were carefully evaluated. While it certainly does result in a higher initial controller cost, solar-based power proved to be extremely effective and by far the most economical option under the existing conditions.
 - Options for accessing internet were also investigated. Cellular-based internet access to support all the cloud-based services is, again, the most effective and economical under the existing conditions.
 - Because we have elected Solar-based power and the fact that there is no building to contain the controller (sheltered in-doors), the system requires a more extensive, permanent housing unit manufactured with stainless steel. This is structurally necessary to safely and effectively house the batteries. It also comes with a higher initial cost of the controller unit, but lower overall project costs.
- We have elected to use built-in flow sensors to facilitate a high-degree of system monitoring, real-time feedback and detailed reporting. All of which is crucial to maximizing controller capability, management and water savings.

3. Has the association looked at reducing the system's foot print and converting turf areas to native plantings?

The Association is in the process of developing a comprehensive Master Maintenance Plan. Several significant improvements in cultural practices have already begun with others under consideration. The Association's most immediate priority has been to optimize the performance of the existing infrastructure, before undertaking significant changes in redesign.

Examples of functional and/or cultural changes occurring this season include:

- The existing irrigation system undergoes comprehensive checks to evaluate coverage. The results of these audits have resulted in extensive upgrades to, additions and moving of heads to improve coverage and prevent overwatering. There has also been extensive moving and/or pruning of plants in beds that were significantly interfering with effective irrigation.
- All trees are being assessed to develop a comprehensive plan to preserve, improve the health of and ultimately add trees to the Association grounds. Structural and clearance pruning is already begun.
- Change from multiple applications of synthetic fertilizers to a single application of a soil builder. This is improving plant health while eliminating the use of any fertilizers, synthetic or organic. Better soil requires less water. Elimination of fertilizers means cleaner water.
- Change to a soil builder has reduced the related product application from 3 to 4 times per year to 1x per year.
- The use of soil builder increases microbial activity and reduces thatch while enhancing root development. The performance in these areas, in just this first season, has also eliminated the need for turf aeration. Aerated turf requires significant applications of water post aeration while grass recovers . . . therefore, significant water was saved.
- Mow heights have been increased to the maximum available via commercial service. The higher turf is mowed, the longer the root development is . . . which means healthier turf with much lower water needs.
- Cultural practices have improved turf health so much that mowing has been reduced to a bi-weekly activity. The less turf is mowed, the less water it requires to remain vibrant and healthy.
- There will be an over-seeding of the entire turf with a hardy, low-mow grass mix that will stand-up to undesirables (weeds) and diversify the turf grass mix. This will result in an over-all turf with deeper roots, that is more drought tolerant and requires less water. This over-seeding will be done in early to mid-September.

It is certainly conceivable that future planning and redesign of the Association's landscape may include additional native planting areas. Native and/or deep rooting, hardy plant material is utilized as appropriate when plants are replenished or replaced in existing beds. However, the focus will continue to be on optimizing the existing infrastructure's performance before adding new landscape components.

Hopefully, this information helps you to understand the comprehensive nature and quality of land stewardship that is underway at Prairie East Fifth Association. The addition of evapotranspiration-based irrigation controllers are only one part of Prairie East's progressive, responsible urban land and water management. We hope you will support these efforts.

Respectfully,

*Mary Davy, No-Stress Gardening and Landscapes LLC
On Behalf of Prairie East Fifth Association*