



September 23, 2024

City of Rochester Hills  
Department of Parks and Natural Resources  
1000 Rochester Hills Dr.  
Rochester Hills, MI 48309

Attn: Mr. Matt Einheuser, Natural Resources Manager

Re: Innovation Hills and Eagle Point Streambank Stabilization Projects  
Proposal of Professional Services

HRC Job No. 20240743

Dear Matt;

Thank you for this opportunity to present this proposal for professional services to evaluate, design, and bid the above referenced projects. It is the City's intent to bid these projects together to gain any economies of scale/scope unless preliminary tasks demonstrate that it would be better to separate these projects. We will track each project's tasks and costs separately as requested. Please note that we have assumed that while these projects will be tracked separately, they will follow the same process and schedule. Thus, we have split time for items such as meetings, EGLE applications, etc. between the projects. Should these projects be fully separated, we will need to review our time.

### Innovation Hills

The outer bend upstream from the kayak launch has eroded and in addition to jeopardizing numerous trees, the bank is moving toward the sanitary sewer and the adjacent wetland mitigation area. Based on our field review there are two likely components to addressing this issue: Phase 1) immediately addressing the streambank failure that is undercutting trees and Phase 2) addressing the root cause of the issue by redirecting the river energy away from the bank.

In reviewing PA 451 Parts 301 and 31, it may be possible to complete the first component without a permit. Part 301 does not regulate above the OHWM and Part 31 Rules exempt excavating where dredged materials are placed in an upland area out of the floodplain. Therefore, you could address pulling the banks back and vegetating on a "maintenance scale" as a phase 1 approach. As noted on site, regardless of being able to quote Michigan's environmental laws and rules, HRC cannot guarantee that EGLE will not take exception to the work regardless of if the City is in the right.

The longer-term solution (second component/phase) will require EGLE permitting to install in stream structures and thus, require a more robust design effort. We will design both elements of the work and defer the decision on how to construct them until we review the designs with the City.

#### Task 1 – Study Phase

- Visit the sites with our stream restoration experts
- Collect historical data on the sites, flows, etc.
- Review and comment on any specific challenges
- Address general EGLE permitting issues
- Refine scope and costs
- Comment on grant availability if the City wants to pursue any opportunity.

#### Task 2 – Preliminary Design

- Topographic survey
- Preliminary plans, specifications, and cost estimate
- Review meeting with City including discussion about performing Phase 1 as maintenance with internal forces

#### Task 3 – Permitting

- Prepare EGLE permit application
- Submit permit application
- Address EGLE questions to obtain permit

#### Task 4 – Final Design

- Address any City issues on preliminary plans and specifications.
- Prepare final contract documents
- Update cost estimates
- Meet with City to discuss any issues

#### Task 5 – Bidding

- Provide all project materials to the City for posting
- Attend pre bid meeting
- Issue pre bid meeting minutes and any necessary addenda
- Review bids, prepare bid tabulation, and prepare recommendation for award.

### **Eagle's Landing (Avon and Livernois)**

This site extends upstream from the Livernois Road crossing through several compound river bends that are creating instability in the system. Stream bank erosion, especially near the kayak storage rack and road have moved significantly since the last time HRC was on site. This is downstream of the location of several past efforts to stabilize the river that may require linking together to be successful. This may require a larger scale solution in lieu of just protecting the primary bend (and possibly creating instability elsewhere). We will review this site in the context of the overall solution to develop a solution for the immediate issue that can be the foundation for additional restoration efforts when budgets permit.

Specific to the Eagle's Landing site, HRC will request and attend a meeting with the regional MDNR fisheries manager to get their feedback including if they would support a larger river project to address more of the issues on site.

#### Task 1 – Study Phase

- Visit the sites with our stream restoration experts
- Collect historical data on the sites, flows, etc.
- Review and comment on any specific challenges
- Refine scope and costs
- Comment on grant availability if the City wants to pursue any opportunity.

#### Task 2 – Preliminary Design

- Topographic survey
- Preliminary plans, specifications, and cost estimate
- Review meeting with City

#### Task 3 – Permitting

- Prepare EGLE permit application
- Submit permit application
- Address EGLE questions to obtain permit

Task 4 – Final Design

- Address any City issues on preliminary plans and specifications.
- Prepare final contract documents
- Update cost estimates
- Meet with City to discuss any issues

Task 5 – Bidding

- Provide all project materials to the City for posting
- Attend pre bid meeting
- Issue pre bid meeting minutes and any necessary addenda
- Review bids, prepare bid tabulation, and prepare recommendation for award.

**Assumptions**

The following are offered as clarifications related to the above scope:

- Hydraulic modeling will not be required by EGLE.
- Neither project will require traffic control plans
- City will pay or reimburse EGLE permit fees (\$500-\$2,000 depending on solutions)
- Construction engineering and administration costs are not included. A separate proposal will be provided for this work if requested.

**Costs**

Please see the attached table of estimated hours per Project. Based on the above tasks and estimated hours, we propose an **Innovation Hills project budget of \$40,040 and Eagle's Landing project budget of \$43,400.**

**Schedule**

HRC would begin immediately upon authorization. Our goal would be to complete the initial tasks quickly in order to meet with the City before the end of the year and apply for EGLE permits over the winter while completing the final design in early 2025. Due to the likely 120+ days for EGLE to issue permits, construction would likely be in summer of 2025. Tree removals may have to be done ahead of time by City forces if any bat restrictions apply to this work.

Thank you for the opportunity to submit this proposal. We look forward to working with you on this project. If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.



James F. Burton, P.E.  
Vice President

Attachment

pc: HRC; File

Accepted By:

Signature: \_\_\_\_\_

Written Name: \_\_\_\_\_

Title: \_\_\_\_\_

Dated: \_\_\_\_\_