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June 2, 2011

City of Rochester Hills 1000 Rochester Hills Drive Rochester Hills, MI 48309

Attn: Mr. Roger Moore, P.S.

Re: USFWS Great Lakes Basin Fish Habitat Partnership grant Proposal for Professional Engineering and Environmental Services For the Avon Creek Restoration – Phase II HRC Job No. 20100491

Dear Mr. Moore:

In 2010, HRC prepared a grant application on behalf of the City to restore Avon Creek from the existing pond to the then Environmental Interpretive Center. The application was successful, obtaining a grant of \$135,000 using the already planned pond retrofit project as the local match. It is our understanding that the U.S. Fish and Wildlife Service has tentatively agreed to provide additional funding for the Phase II Avon Creek Restoration project. This shall include funding to modify a portion of the Phase I Pond Retrofit Project to provide a continuous channel. Combined, the amended projects will restore double the stream length originally planned, for no additional cost to the City. To facilitate this, additional engineering support is requested. These costs are included in the additional funding from USFWS. We appreciate the opportunity to submit this proposal to amend our current work orders to provide these additional services.

<u>Modification to the Pond Retrofit Project</u> – The original project called for the stream flows to be rerouted back through the pond when the construction was completed. However, to promote fish and aquatic organism passage, reduce sediment loading to the pond, improve water quality, and reduce water temperatures, a permanent bypass channel is preferred. HRC will work with the City and the Contractor to develop a plan, cross sections, material lists, and change order to accomplish this objective. We will also submit a permit modification to MDEQ for this work and assist City staff during construction. The estimated staff hours for this task are 75-80 for a not to exceed budget of \$7,300.

Phase II Avon Creek Restoration – The plans issued for bids for Phase II included a Division for additional stream restoration from behind the Clinton River Watershed Council offices to the Clinton River. This work has been permitted. With the availability of additional funding, we recommend moving forward with this work. Previous HRC proposals did not include construction assistance for this Division. We estimate 50-60 hours for this task for a not to exceed budget of \$5,000.

The total estimated cost to complete the tasks summarized above is \$12,300. Please note that the above engineering or construction cost estimates do not include full time construction observation, reporting, or

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record drawings. It is assumed that the City will provide the above referenced items and day-to-day construction engineering services with minimal HRC support, as needed.

This amount will not be exceeded without prior authorization. In accordance with our Consulting Engineering Services Contract, invoicing for this work will be on the basis of direct payroll plus a multiplier of 1.9. Invoices will be submitted on a monthly basis. If the scope needs to be revised, we will report any issues directly to the City so that you may budget accordingly.

If this proposal is deemed acceptable, please sign and return one copy to this office and retain one for your files. Thank you for the opportunity to provide the City with professional consulting services. If you have any questions or require any additional information, please contact me at (248) 454-6370.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

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James F. Burton, P.E. Associate

For: Walter H, Alix, P.E., P.S. Vice President

jfb pc: HRC; J. Burton, D. Mitchell, R. Myllyoja, B. Knight, File

Accepted By:

Signature:_____

Printed Name:_____

Title:_____

Date:_____