

Office of the City Engineer

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July 8, 2013

Legistar Item: 13-9118

To: Sandy Weidner, Chairman
Public Works and Services Committee

From: John Rooney 
Assistant Commissioner of Public Works/City Engineer

Re: Professional Services Agreement – Contract 51-13 (K3-056) Spring Street/Washington
Park Streambank Stabilization, AECOM, Consultant

We have received a Professional Services Agreement from AECOM for the design of various streambank stabilization measures and developing biddable plans and specifications.

The first location (Spring Street area), approximately 600 feet of streambank will be stabilized along the right bank of the river just upstream of the WDNR Steelhead Spawning Facility just north of Spring Street. The design will maximize the use of bioengineered solutions (e.g. utilizing living plant and/or organic materials) or a combination of these materials and engineered products. These may consist of deep-rooted native plantings, fabric-encapsulated soil lifts, and others. In-stream structures (e.g. cross-vanes, j-hooks) may also be included to minimize shear stress along bank. These could include rock vanes, j-hooks, or log deflectors to reduce the stresses on the bank, along with providing fish habitat.

The second location (Washington Park area), there are several improvements that may be incorporated into the design over approximately 1,200 lf of streambank. The actual techniques and measures will be refined during design process but preliminarily are anticipated to include:

- 600 feet of streambank stabilization – the design will be consistent with the techniques described above for the Spring Street area
- In-stream structures (e.g. cross-vanes, j-hooks) – the design will be consistent with the techniques described above for the Spring Street area
- Spot removal of trees along bank
- Bluff stabilization – through select clearing and revegetation, approximately 1 acre of bluff will be stabilized above the stream bank
- Design of stabilization/repair/reconstruction of up to three storm sewer outfall structures
- Design of pedestrian/fishing access way/platform

The agreement is in the not-to-exceed amount of \$121,616.00. This design and construction of this project is being partially funded through grants from the Fund for Lake Michigan (FFLM) and the Wisconsin Department of Natural Resources (WDNR) Urban Nonpoint Source program. A grant from the FFLM will partially be funding the Spring Street area and the Washington Park area, while the WDNR grant is partially funding only the Washington Park area. The funding for this agreement will be provided from the following accounts:

25% - \$30,404 Account 104.993.5420, Storm Water Utility

50% - \$60,808 Account 104.993.5430, Fund for Lake Michigan

25% - \$30,404 Account 104.993.5440, Urban Nonpoint Source, Washington Park Streambank "B"

If the Committee agrees, the appropriate action would be to approve the proposal and authorize the Mayor and City Clerk to enter into the agreement.

JCR:njp

Cc: Joy Hansche
File