

 <p style="text-align: center;">Council Communication Office of the City Manager</p>	Date: June 24, 2013
	Agenda Item No. 61 Roll Call No. [] Communication No. <u>13-321</u> Submitted by: Jeb E. Brewer, P.E., City Engineer

AGENDA HEADING:

Approving Professional Services Agreement with Stantec Consulting Services Inc. for professional services in connection with the Levee Assessment and Analysis, not to exceed \$1,558,000.

SYNOPSIS:

Recommend approval of the Professional Services Agreement with Stantec Consulting Services Inc, Robert J. Campbell, Principal, 1859 Bowles Avenue, Suite 250, St. Louis, Missouri 63026, for a total cost not to exceed \$1,558,000, based on hourly rates, to provide professional services for the Levee Assessment and Analysis.

FISCAL IMPACT:

Amount: 1,558,000

Funding Source: 2013-2014 CIP, Page Storm Water Improvements - 8, SM087, Des Moines River Flood Mitigation Improvements, Storm Revenue Bonds

ADDITIONAL INFORMATION:

On January 19, 2011, the Corps of Engineers released the Des Moines River Regulated Flow Frequency Study that identified changes in the expected river levels. In response to this information, the City entered into a professional services agreement with Stantec Consulting Services Inc. to review the Corps of Engineer study and hydraulic model and identify possible ways to modify levees, reduce restrictions or modify reservoir operations in order to mitigate potential higher river levels. The final report with recommendations was finalized and presented at a City Council workshop.

In developing the recommended projects, staff identified the need for professional services to ensure the hydraulic modeling is performed consistently and the requirements of the Corps of Engineers and Federal Emergency Management Agency (FEMA) are fully incorporated into each proposed project. The analysis will be for such projects as raising the levees on both sides of the Des Moines River, floodwall improvements, channel modifications near the old UP R.R. Bridge, and channel modifications near the U.S. 65 bypass.

On October 8 2012, by Roll Call No. 12-1545, City Council approved a professional services agreement with Stantec for Hydraulic Modeling Coordination. This work included reviewing available information for the DM-I, DM-II and DM-III levee systems relative to the requirements to satisfy the Corps of Engineers and FEMA. Preliminary submittals for a levee raise under a minor modification

program were submitted to the Corps of Engineers. After discussions, it was determined that Des Moines would be required to follow a major modification program. Based on the information obtained and direction provided by the Corps of Engineers, professional services are required to address the gaps identified between existing information and the FEMA requirements and prepare the required information to satisfy Corps of Engineers Section 408 requirements.

The approach to ultimately obtaining levee certification and FEMA accreditation is broken into phases. The first phase, provided in the scope of services for this agreement, includes engineering assessment and alternatives analysis that will result in the development of a master plan for the levee systems. Geotechnical exploration, testing, and analysis are a significant portion of the services required to satisfy the requirements along with other tasks, such as a seepage analysis, erosive velocity analysis, etc. Subsequent phases are anticipated to include final design and permitting of the identified improvements, construction of the improvements and ultimately certification of the levee system to achieve accreditation by FEMA. Stantec will be involved through each phase in varying degrees to ensure the hydraulic modeling is performed consistently and that the requirements of the Corps of Engineers and FEMA are fully incorporated into each project. Stantec's work beyond the master plan will be accomplished as separate scope of services through future agreements. Due to the nature of work required to provide certification through FEMA's accreditation of the levees, changes are necessary to the City's Standard Insurance and Indemnification requirements. City staff have negotiated a \$10 million cap on City damages for professional services by Stantec.

Stantec Consulting Services was previously selected over other consultants based on their past project and levee experience, technical expertise, and analytical approach. Stantec Consulting Services was again selected to provide professional services for the Levee Assessment and Analysis because of their performance in developing recommendations for the City and profound knowledge of hydraulic modeling.

Staff has negotiated a Professional Services Agreement with Stantec Consulting Services, for a total cost not to exceed \$1,558,000, based on hourly rates, to provide professional services.

PREVIOUS COUNCIL ACTION(S):

Date: October 8, 2012

Roll Call Number: [12-1545](#)

Action: [Approving](#) Professional Services Agreement with Stantec Consulting Services, Inc. for professional services in conjunction with the Hydraulic Modeling Coordination, not to exceed \$250,000. ([Council Communication No. 12-525](#)) Moved by Hensley to adopt. Motion Carried 7-0.

Date: February 13, 2012

Roll Call Number: [12-0166](#) and [12-0167](#)

Action: [Approving](#) Professional Services Agreements with the following:

(A) [AECOM](#) Technical Services, Inc. (Steven J. Eaton, Principal-in-Charge) for design services for the Des Moines River DM-3 Levee Raise, not to exceed \$216,000. ([Council Communication No. 12-070](#)) Moved by Hensley to adopt. Motion Carried 7-0.

(B) [Stanley](#) Consultants, Inc. (Gayle Roberts, President) for the Des Moines Union Railway Bridge Feasibility, not to exceed \$56,300. ([Council Communication No. 12-067](#)) Moved by Hensley to adopt. Motion Carried 7-0.

Date: March 28, 2011

Roll Call Number: [11-0554](#)

Action: [Professional](#) Services Agreement with Stantec Consulting Services, Inc. (Robert J. Campbell, Principal) in connection with the Des Moines River Flow Frequency Analysis, not to exceed \$51,000. ([Council Communication No. 11-177](#)) Moved by Moore to adopt. Motion Carried 7-0.

Date: February 14, 2011

Roll Call Number: [11-0222](#)

Action: [Approving](#) retention of Husch Blackwell LLP to provide advice and representation on levee system issues. Moved by Hensley to adopt. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Design and construction of recommended improvements and additional professional services required to reduce flood risk and obtain levee accreditation.

For more information on this and other agenda items, please call the City Clerk's Office at 515-283-4209 or visit the Clerk's Office on the first floor of City Hall, 400 Robert D. Ray Drive. Council agendas are available to the public at the City Clerk's Office on Thursday afternoon preceding Monday's Council meeting. Citizens can also request to receive meeting notices and agendas by email by calling the Clerk's Office or sending their request via email to cityclerk@dmgov.org.