

 <p style="text-align: center;">Council Communication Office of the City Manager</p>	Date: June 27, 2011
	Agenda Item No. 7 Roll Call No. <u>11-1073</u> Communication No. <u>Council Communication: 11-413</u> Submitted by: <u>Jeb E. Brewer, P.E. City Engineer</u>

AGENDA HEADING:

Approving Professional Services Agreement with Howard R. Green Company in connection with design and construction phase services for the 2011 System Wide Local Flood Protection Project Improvements project, not to exceed \$377,000.

SYNOPSIS:

Recommend approval of the Professional Services Agreement with Howard R. Green Company, Don Lovett, Chief Operating Officer, 5525 Merle Hay Road, Suite 20, Johnston, Iowa, for a total cost not to exceed \$377,000, based on hourly rates, to provide design and construction phase services for the 2011 System Wide Local Flood Protection Project Improvements project.

FISCAL IMPACT:

Amount: \$377,000

Funding Source: 2011-2012 CIP – Page Storm Water Improvements-10, Flood Protection System Improvements, FLD008.

ADDITIONAL INFORMATION:

The City has a number of projects planned of varying scope and complexity related to the Local Flood Protection Project (levee system). Negotiating an agreement with one design consultant to obtain a timely and efficient design, will allow flexibility to package construction contracts as required to provide the best possible opportunity to receive favorable bids.

Howard R. Green Company was selected based on their experience in levee certification and design work on projects involving federal levees. Staff has negotiated a Professional Services Agreement with Howard R. Green Company for a total cost not to exceed \$377,000, based on hourly rates, to provide design and construction phase services.

The City recently submitted required levee certifications for existing levees to FEMA. During the certification process, seepage tests results were not within the desired range on one section of the DM-II levee near the MLK Storm Water Pump Station. With this agreement, Howard R Green will provide engineering services for the installation of a relief well field along the levee at this location. This was the

most desirable solution to bring the seepage characteristics within the desired range and ensure continued levee accreditation on future FEMA Flood Insurance Maps.

The reconstruction of the Birdland Levee to a higher level of protection will affect the ability of operations staff to access the 2nd and Birdland Storm Water Pump Station. With this agreement, Howard R Green will provide engineering services for the design and construction of an access drive from 2nd Avenue along the north side of the pump station.

Recent inspections of the levee system have identified various areas along the DM-I levee where improvements are needed. With this agreement, Howard R Green will provide engineering services for the design and construction of projects to address these improvements. Areas of the levee, which need improved erosion protection, include beneath various bridges where sufficient grass cover cannot be maintained, as well as areas where riprap protection has deteriorated during recent flood events. A culvert passing through the levee along Harriet Street needs to be removed and water routed to the SE 15th Street and Harriet Street pump station. A deteriorated gate well and erosion along a tieback levee near Deans Lake Storm Water Pump Station was also identified to be in need of improvement. Howard R Green will also provide a report to the US Army Corps of Engineers reviewing recent inspection findings on the DM-I levee and assess their effect on the ability of the levee system to perform as designed. This report is needed to respond to the Corps of Engineers.

PREVIOUS COUNCIL ACTION(S):

Date: March 14, 2011

Roll Call Number: [11-0428](#)

Action: [Authorization](#) to proceed with acquisition of necessary right-of-way and easements for various flood protection maintenance and system improvements along the Des Moines and Raccoon Rivers. ([Council Communication No. 11-145](#)) Moved by Hensley to adopt. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Normal Council actions on consultant services for design and construction administration, and construction contracts.

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