



**Council  
Communication**  
Office of the City Manager

**Date**

March 20, 2006

**Agenda Item No.** 8

**Roll Call No.** 06-

**Communication No.** 06-143

**Submitted by:** William G. Stowe, Assistant City  
Manager/Public Works/Engineering and  
Jeb E. Brewer, P.E., City Engineer

**AGENDA HEADING:**

Approving the Design Agreement between the U.S. Army Corps of Engineers and City of Des Moines, Iowa for design of the Des Moines and Raccoon Rivers Project for flood protection, not to exceed \$298,000.00.

**SYNOPSIS:**

Recommend approving the Design Agreement between the U.S. Army Corps of Engineers, Duane P. Gapinski, Colonel, Corps of Engineers, District Engineer and the City of Des Moines, Iowa for design of the Des Moines and Raccoon Rivers Project for flood damage reduction consisting of: reconstruction of levees along the Central Place Business District from 2nd Avenue to University Avenue and also along Birdland Park from Saylor Road to the southern edge of McHenry Park, and levee closure improvements in the downtown area outside the construction limits of Riverwalk Project.

**FISCAL IMPACT:**

Amount: \$298,000.00

Funding Source: 2006-2007 CIP, Page SWI-11, Flood Protection System Improvements, FLD008, Storm Water Utility Funds, (\$298,000 is over a two year period in FY 2006 and 2007).

**ADDITIONAL INFORMATION:**

Following the Flood of 1993, the City recognized a need to perform a comprehensive study of the flood protection system in Des Moines. The levee system throughout Des Moines is partially owned by the U.S. Army Corps of Engineers and partially by the City of Des Moines. Therefore, on September 13, 1999, a Feasibility Study Agreement was executed between the City of Des Moines and the U.S. Army Corps of Engineers to perform analyses of the adequacy of the existing flood protection system in Des Moines.

In order to provide a consistent level of flood protection, the U.S. Army Corps of Engineers performed engineering, economic, and environmental analyses on the Des Moines and Raccoon Rivers; as well as

Walnut Creek and Four Mile Creek, including the outlet of the Leetown Creekway. This study involved hydrologic and hydraulic analyses which were completed in Phase 1 (2002); followed by engineering and economic analyses of the existing flood protection system which were completed in Phase 2 (2005), to determine the need for improvements and identify any federal funding which may be available to assist in design, Right-of-Way acquisitions, and construction of the improvements.

The conclusions of the Feasibility Study resulted in recommendations to the U.S. Congress for authorization in Federal FY 2006 and appropriations in Federal FY 2007 for flood damage reduction consisting of: reconstruction of levees along Central Place Business District from 2<sup>nd</sup> Avenue to University Avenue and also along Birdland Park from Saylor Road to the southern edge of McHenry Park, and levee closure improvements in the downtown area outside the construction limits of Riverwalk Project. It is anticipated that Right-of-Way acquisitions could begin in Federal FY 2007 and construction could begin in Federal FY 2008. During levee reconstruction, the contractor will be required to limit length of levee reconstructed and ensure adequate flood fighting is present at all times.

**PREVIOUS COUNCIL ACTION(S):**

Date: September 13, 1999

Roll Call Number: 99-2748

Action: Approving Agreement with Department of the Army for the Des Moines and Raccoon Rivers Feasibility Study

Date: July 9, 2001

Roll Call Number: 01-2160

Action: Granting Right-of-Entry to the U.S. Army Corps of Engineers for survey and exploration of City property to determine adequacy of flood control system on Des Moines and Raccoon Rivers

**BOARD/COMMISSION ACTION(S): NONE**

Date:

Roll Call Number:

Action:

**ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:**

Execution of a Project Cooperation Agreement (PCA) between the City and the U.S. Army Corps of Engineers for Local Sponsor participation in providing cash contributions, performance of in-kind services, and providing incidental costs for the design, Right-of-Way acquisitions and construction of flood protection improvements to the local flood protection system in Des Moines.