



**CITY COUNCIL
COMMUNICATION:**

ITEM _____

98-230

**OFFICE OF THE CITY MANAGER
CITY OF DES MOINES, IOWA**

**AGENDA:
JUNE 1, 1998**

SYNOPSIS —

**SUBJECT:
PROFESSIONAL
SERVICES
AGREEMENT
AMENDMENT
NUMBER TWO FOR
DESIGN OF THE
WASTEWATER
RECLAMATION
AUTHORITY (WRA)
RAW SEWAGE
PUMPING STATION
PROJECT**

An agreement amendment has been negotiated with the engineering firm of Brown & Caldwell, Craig Goehring, President and CEO, 3408 Buskirk Avenue, Pleasanthill, California 94526-4342 to provide additional out of scope Engineering Design Services for the Wastewater Reclamation Authority (WRA) Raw Sewage Pumping Station project. The proposed amendment is on a cost plus fixed fee arrangement consistent with the original agreement. The proposed fee for such additional Engineering Services is \$55,000.00. This Agreement Amendment Number Two increases the original agreement and Agreement Amendment Number One by \$55,000 for a total contract in the amount of \$640,590.47.

**TYPE:
RESOLUTION
ORDINANCE
RECEIVE/FILE**

FISCAL IMPACT –

**SUBMITTED BY:
HAROLD SMITH
CITY ENGINEER**

Funding for this project is provided for on page 369 of the 1998-99 Capital Improvements Program. Funding for a portion of the project will be made from the WRA Renewal & Replacement Fund which has sufficient cash on hand. The balance of the project will be funded by direct contributions by each WRA Community for their appropriate share of the cost of the project based on the Fourth Supplement to the Integrated Community Area (ICA) Agreement and the Western Area Facility Plan. Des Moines' share of the project is proposed to be funded by Sewer User Fees using cash on hand in the fund.

RECOMMENDATION –

**Approval of the proposed Engineering Agreement
Amendment Number Two with Brown and Caldwell
Approval.**

BACKGROUND –

On April 21, 1997, by Roll Call Number 97-1293, the City Council gave approval for the Mayor to execute an Agreement Amendment with the consultant to provide engineering design services for the WRA Pump Station project. Work has progressed on the design of the project and it has now become apparent that it will be necessary to request the consultant to perform additional out-of-scope work.

The out-of-scope work proposed to be included in this project is as follows:

- 1) Rework of construction contract documents already prepared in accordance with the Des Moines Standard Specifications for Construction of Public Improvement - 1992 Edition to incorporate the new 1998 Urban Standard Specifications for Public Improvements;
- 2) Design of a new modified bitumen sheet roof for Building Number 5 (the raw sewage pumping station building). The Scope of Work for the Amendment to Agreement originally did not contemplate that the roof of Building 5 would need to be replaced as a part of this project since there were a limited number of new roof penetrations planned for the proposed project. Examination of the existing roof with respect to this design effort has since revealed that there is substantial failure of the roof covering that will require complete replacement of the roof covering system;
- 3) Design of a new bridge crane and hoist to be included in Building Number 5. It was not certain during negotiation of the amendment number one to agreement as to the need for a crane to replace the existing crane since the pumping units which it is intended to lift would not be identified until well into the design effort. It was thought that the existing crane might be sufficient to lift the new equipment, however it has since been determined that it will be necessary to replace the existing crane because of the nature and size of the proposed new pumping units;
- 4) Design of a new service air compressor system. It was originally thought that existing equipment would be sufficient to provide the required quantity of compressed air. On selection of the major equipment for this project it was determined necessary that new service for air would be required;

5) Design of a new fluid power system for the sluice and gate valves at Building Number 5. After examination of various alternative gate power systems it was determined that because of the critical need for reliability at this application the fluid power system provides the needed reliable gate operating system and should replace the existing electrically operated system. Replacement of the gate operating system was not contemplated during negotiations for the original amendment agreement; and

6) Provide additional Variable Frequency Drive (VFD) layouts to facilitate competitive bidding. It has been determined that because of the limited space in the existing building there are few VFD units that could easily be accommodated in the existing facilities. It will be necessary to produce several alternative building layouts that will accommodate as many different VFD manufactures as possible to minimize the potential for sole source of this equipment.