

**CITY COUNCIL
COMMUNICATION:**

03-368

AGENDA:

JULY 28, 2003

SUBJECT:

WRF W3
EXPANSION—
DESIGN AND
CONSTRUCTION
PHASE SERVICES
AGREEMENT

TYPE:

RESOLUTION
ORDINANCE
RECEIVE/FILE

SUBMITTED BY:

JEB E. BREWER, P.E.
CITY ENGINEER

WILLIAM G. STOWE
PUBLIC WORKS
DIRECTOR

ITEM _____

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

SYNOPSIS —

A professional services agreement has been negotiated with the engineering firm of Howard R. Green (Ralph Russell, President, 8710 Earhart Lane SW, Cedar Rapids, Iowa 52404) to provide design services for the Des Moines Wastewater Reclamation Facility (WRF) W3 Expansion in a lump sum amount not to exceed \$53,200.

FISCAL IMPACT —

Funding for this project is provided for on page WRA3 of the 2000-01 Capital Improvement Program (CIP), from Repair and Replacement funds, WRA Small Projects Fiscal Year (FY) 2004, Fund: EN267, Org: PWK990000, Project: WRA 082, Activity ID 01-2004-001.

RECOMMENDATION —

Approval of the proposed engineering agreement with Howard R. Green.

BACKGROUND —

During startup of the Grit Handling Improvements at the WRF, a deficiency in the W3 process water system was found. The W3 distribution system does not provide the required volume or pressure to operate the fluidizing pumps. The fluidizing water is required to keep the grit in suspension and prevent a buildup of grit at the grit basin inlet.

A study of the W3 system was conducted by Black & Veatch and Howard R. Green to determine how the problem could be corrected. The study recommended increasing pipe diameter in the west part of the WRF. The project was submitted as a FY04 small capital improvement and approved by the WRA Management Agency.

Howard R. Green was chosen as the consultant to design the WRF W3 Expansion because of their involvement as a subconsultant with the original Black & Veatch, WRF Sludge and Power Generation Study, Activity ID 01-2002-025. This project is time sensitive and needs to be completed by Spring 2004 to provide fluidization during high flow periods.

Black & Veatch was chosen for the WRF Sludge and Power Generation Study Improvements based on proposals received from Black & Veatch and CH2MHill. Requests for proposals were sent to seven firms and only Black

& Veatch and CH2MHill responded.