



City of Grand Island

Tuesday, August 10, 2004

Council Session

Item G15

**#2004-197 - Approving Phase II - Rogers Pumping Station
Improvements Project - Water System Engineering Services -
CH2M Hill**

Staff Contact: Gary R. Mader;Dale Shotkoski

Council Agenda Memo

From: Gary R. Mader, Utilities Director
Dale Shotkoski, Asst. City Attorney/Purchasing

Meeting: August 10, 2004

Subject: Award Memo for Phase 2 – Roger’s Pumping
Improvements Project- Water System Engineering
Services

Item #'s: G-15

Presenter(s): Gary R. Mader, Utilities Director

Background

The Utilities Department periodically retains the services of an engineering consultant to review the City’s water system for deficiencies and to assist in planning future requirements. The water system must meet certain operational standards to be suitable both for human consumption and for fire protection. These operational standards include analyzing chemical and microbiological components of the water, and hydraulic testing of the system for flow and pressure characteristics. The consultant also projects future system demands and recommends improvements for pumping and distribution components of the system. The last study was conducted in 2001 by CH2M Hill, which resulted in a Master Plan for the water system. Based on this Master Plan, areas of deficiency were noted, as well as a general timetable for completing corrective action. If these activities required additional engineering support, detailed proposals have been solicited from CH2M Hill because of their prior familiarity with the project. Some of the projects previously authorized for engineering support have been; design and implementation of the corrosion control system, modifications to the Platte River Pumping Station, and repairs to the Kimball Reservoir. These projects have been satisfactorily completed.

Discussion

Because of increasing groundwater contamination and more stringent regulations, the Master Plan recommends planning for abandonment of the remaining wells located in the City. Two of the seven wells that were in operation at the time the Master Report was drafted have since been abandoned because of contamination. To account for the loss in pumping capacity, the Master Plan recommends increasing the pumping capacity and the

storage volume at the Roger's Pumping Station, on the west side of the City. CH2M Hill was authorized and has completed Phase I of this project. Phase I included design services related to conceptual design of the expanded pump station and the preparation of contract documents for the purchase of the new pump. Purchase of the pump well in advance of construction was required because of the long lead time for pump manufacture and delivery.

Based on the conceptual design work, it is recommended that the new pump be installed in the existing pump station building with a building extension added for the required electrical supply panels, rather than constructing a second pumping station. To perform the next phase of detailed design and to prepare construction documents for bidding, CH2M Hill has provided a proposal for actual costs not to exceed \$138,418.40. Actual costs are to be billed by the engineer as work is completed. This project is scheduled to have the new pump in service prior to the 2005 summer peak demand season.

The addition of pumping capacity at Roger's Pumping Station will require outside engineering support. Department engineering staff has reviewed the proposal from CH2M Hill and finds it to be fair and reasonable for the scope of this project.

Alternatives

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Approve the Award of engineering service for Phase 2 – Rogers Pumping Improvement Project.
2. Deny the Award of engineering service for Phase 2 – Rogers Pumping Improvement Project.
3. Table the issue.

Recommendation

City Administration recommends that CH2M Hill be authorized to proceed with the engineering services for Phase 2 – Rogers Pumping Improvement Project, in an amount not to exceed \$138,418.40.

Sample Motion

I move that CH2M Hill be authorized to proceed with engineering services for Phase 2 – Rogers Pumping Improvement Project for payment not to exceed \$138,418.40.,

R E S O L U T I O N 2004-197

WHEREAS, on April 10, 2000, by Resolution 2000-110, the City Council of the City of Grand Island awarded the proposal submitted by CH2M Hill of Englewood, Colorado, for municipal water system engineering services for the Utilities Department; and

WHEREAS, such engineering services resulted in the completion of a Water System Master Plan; and

WHEREAS, the Master Plan recommends the abandonment of existing municipal wells due to increasing groundwater contamination and more stringent regulations of such wells; and

WHEREAS, due to the loss of water pumping capacity as a result of abandoning wells, the Master Plan recommends increasing the pumping capacity and the storage volume at the Roger's Pumping Station; and

WHEREAS, it is recommended that a new pump be installed in the existing pump station building with a building extension added for the required electrical supply panels; and

WHEREAS, CH2M Hill has provided a proposal for actual costs not to exceed \$138,418.40 to provide detailed design and to prepare construction documents for bidding such project; and

WHEREAS, based on CH2M Hill's knowledge and experience with the municipal water system, it is recommended that CH2M Hill be authorized to proceed with the engineering work for this phase of the project; and

WHEREAS, the City Attorney's office has reviewed and approved the contract for such project.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that CH2M Hill is hereby authorized to complete engineering services for Phase 2 – Rogers Pumping Improvement Project in an amount not to exceed \$138,418.40.

BE IT FURTHER RESOLVED, that the Mayor is hereby authorized and directed to execute the contract with CH2M Hill for such services on behalf of the City of Grand Island.

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Adopted by the City Council of the City of Grand Island, Nebraska, August 10, 2004.

Approved as to Form	☐ _____
August 5, 2004	☐ City Attorney

RaNae Edwards, City Clerk