



City of Grand Island

Tuesday, January 22, 2002

Council Session

Item G12

#2002-18 - Approving Engineering Services for Pump Replacement - Platte River Pumping Station

With the completion of the Water System Master Plan, it is the recommendation of the Utilities Department that the City proceed with the system improvement needs identified in that report, starting with the Platte River Pumping Station.

The Platte River Pumping Station moves the water supplied by the 21 wells at the well field to the in-town storage reservoirs. There are three split case centrifugal pumps at the station. The largest of those three pumps has developed a casing leak, and upon investigation, it was found that the pump casing is severely worn and eroded on the interior. The pump is currently in standby status, for emergency operation only.

The Water System Master Plan identified the need to add additional water storage and high pressure pumping capacity to continue to meet City growth. High pressure pumping capacity was last expanded in 1990, and since that time several high-pressure wells have been lost. The capital plan included addition of reservoir storage and pumping capacity at the existing Rogers Reservoir site in 2005. The increased storage and high pressure pumping capacity will require additional water from the well field, and expansion of facilities there too.

Rather than replace the failed pump at the well field with a duplicate unit, the Department believes that the most cost effective approach would be to design and add pumping capacity for the projected increased need, at this time. Planning for the increased pumping need will require re-design of the hydraulics, surge analysis, electric supply upgrades, and possible piping modifications.

In accordance with the RFP from which CH2MHill was selected for the Water System Engineering work, that firm has provided a price of \$58,109 for the engineering services for this project. Utilities Department Staff has reviewed the engineer's proposal.

It is the recommendation of the Utilities Department that CH2MHill be authorized to proceed with the engineering work required to replace the failed Platte River Pumping Station pump with a unit which will provide for the projected need for increased capacity from that station. There are sufficient funds budgeted in Water Fund 525. See attached RESOLUTION.

Staff Contact: Gary R. Mader



RESOLUTION 2002-18

WHEREAS, on April 10, 2000, by Resolution 2000-110, the City Council for 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, the recently completed Water System Master Plan indicates a large pump at the Platte River Pumping Station is in need of replacement; and

WHEREAS, this pump would have needed to be redesigned and replaced in the near future to provide for the additional water storage and high pressure pumping capacity necessary to meet City growth; and

WHEREAS, the most cost effective approach to accomplish this system upgrade is to design and add pumping capacity for the projected increased need at this time; 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 a project to replace the failed Platte River Pumping Station pump with a unit which will provide for the projected need for increased capacity at that station; and

WHEREAS, CH2M Hill has agreed to provide engineering services for this phase of the project for \$58,109; 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 work to replace the failed Platte River Pumping Station pump with a unit which will provide for projected future increased water storage and high pressure pumping capacity needs for the amount of \$58,109.

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

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Adopted by the City Council of the City of Grand Island, Nebraska on January 22, 2002.

Approved as to Form	☐
January 17, 2002	☐ City Attorney

RaNae Edwards, City Clerk

Approved as to Form ✕

January 17, 2002 ✕ City Attorney