



Legislation Text

File #: 2021-0639, **Version:** 0

Title

Elevated Tank #6 & Tank #4 Rehabilitation Engineering - Proposal

History

The Village of Orland Park requested proposals from Village pre-qualified engineering firms to perform an evaluation of Elevated Tank #6 and Tank #4 to provide recommendations for upgrades and paint restoration.

Elevated Tank #6 is a spheroid style tank with a 750,000-gallon total capacity, located at 9701 W. 131st Street. It was built in 1995 by Chicago Bridge and Iron Works (CBI). The tank has not been painted since it was put in service. Elevated Tank #4 is a spheroid style tank with a 300,000-gallon capacity, located at 14605 S. 88th Avenue. It was built in 1971 by CBI.

Both tanks will be rehabilitated in 2022. The proposals were required to include the following services in their price:

- a thorough evaluation of the tank noting deficiencies;
- recommendations for improvements;
- costs for improvements;
- construction and rehabilitation schedule;
- evaluation, recommendation, and provision of a cost estimate for a combination railing and antenna mounting system;
- separation of electrical services; and
- coordination and status meetings with Village staff.

The selected engineering firm will also be required to work with Village staff to coordinate the removal of all cellular, phone, and radio equipment during the restoration process, and the reinstallation of the communication equipment after all modifications and paint restorations are completed.

Within the bell of Tank #4 (bottom portion of the tank) there is a very small room which is only able to house a portion of the electronic equipment for the Village-owned antennas and controls. The remaining equipment is in an unheated space, subject to temperature extremes. Current Village initiatives are exploring opportunities to incorporate new technologies inside the tank, utilizing a combination of wireless and fiber optic technologies. The introduction of this technology would improve emergency communications, decrease dependency of outside carriers, and provide network connectivity for electronic devices that will be utilized by staff on a daily basis, as paperless efforts are implemented. The rehabilitation will include converting the tank's bell into a favorable environment for supporting all electronic equipment.

The bell of Tank #6 was built with above ground piping, and is heated and insulated. Rehabilitation of all water towers are being modeled after Tank #6. The engineering firm would develop a plan to maximize the available space and utilize cost effective and energy efficient solutions to control

temperatures in the space under varying winter and summer conditions.

In 2016, the Village adopted a new logo developed through a branding process that can be seen throughout the community. The tank rehabilitation program provides for tanks to be painted white, with the new logo. The paint color for Elevated Tank #6 will be the same, with the exception of the Sandburg High School logo facing the football field to the south, rather than the Village logo.

A request for proposals was sent to eight (8) consultants from the "Recommended Prequalified Consultants" list developed by our Engineering Department through its RFP process. Proposals were received from Baxter & Woodman of Crystal Lake, Illinois, for \$144,705.00; Strand and Associates of Joliet, Illinois, for \$108,500.00; and Christopher B. Burke Engineering of Rosemont, Illinois, for \$99,652.00. Staff recommends the proposal from Christopher B. Burke Engineering of Rosemont, Illinois, be accepted for a price not to exceed \$99,652.00.

Financial Impact

Funds for this project were allocated in the Utility Fund budget 031-6002-443900 (Well & Storage Facilities).

Recommended Action/Motion

I move to accept the proposal from Christopher B. Burke Engineering of Rosemont, Illinois, for Elevated Tank #6 and Tank #4 Rehabilitation Engineering for an amount not to exceed \$99,652.00;

And,

Authorize the Village Manager to execute all related contracts, subject to Village Attorney review.