



Legislation Text

File #: 2019-0064, **Version:** 1

Title

Elevated Tank 5 Fiber Duct Extension - Proposal

History

As the Village of Orland Park continues advancements with technology, there is a greater need to reliably transmit more data and information through the network and to create more access points throughout the system. Security cameras, alarm systems, access control, and monitoring equipment are critical components of the village's technology base. These services depend on network connections with large bandwidth to transmit data and receive software updates. Current radio networks used by Police and Public Works Departments rely heavily on wireless networks, however; because of their limited bandwidth, they do not fulfill every need of the village. Extending fiber to the outer edges of the village decreases the wireless systems transmit distance and increases its reliability while providing more bandwidth for more technology. All village departments utilizing phones, laptops, and tablets can rely on a fiber connection when used with a Wi-Fi access point to securely and efficiently conduct business.

Currently, the Village has two projects that are moving forward, Elevated Tank #5 Restoration in 2019 and the Spur 2 Water Main installation within the next few years. Elevated Tank #5 has been identified as a desirable location to integrate within the Village network via a fiber connection. Improvements planned for Tank #5 include accommodations for fiber and the ability to better house new technology within the base of the Tank.

The Spur 2 routing extends east from the Main Pump Station and will rely mostly on Wheeler Drive and the ComEd right-of-way that parallels Wheeler Drive to approximately 73rd Street, less than 2 blocks away from Elevated Tank #5. During installation of the new watermain, the opportunity to parallel the installation of a 4" fiber duct from the Main Pump Station to Elevated Tank #5 would result in significant savings for the village with design, installation and restoration costs when compared to handling the projects separately. Greeley and Hansen of Chicago, Illinois, the engineering company overseeing the Spur 2 project has been asked to provide additional engineering and construction oversight of the 4" fiber duct during the construction of Spur 2. Greeley and Hansen submitted their proposal with a not to exceed cost of \$39,500.00 to perform the additional work if conducted in conjunction with the Spur 2 project.

On January 21, 2019, this item was reviewed by the Public Works Committee and recommended for approval and referred to the Village Board of Trustees for consideration.

Financial Impact

Funds for this work are available in the Water and Sewer Fund account, 031-6001-443900.

Recommended Action/Motion

I move to approve accepting the proposal from Greeley and Hansen of Chicago, Illinois for the

Elevated Tank 5 Fiber Duct Extension at a cost not to exceed \$39,500.00.