



Legislation Details (With Text)

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|-----------------------|---|----------------------|---|----------------------|---|
| File #: | 2020-0138 | Version: | 0 | Name: | Consulting Engineering Services for 151st Street Lift Station Improvements - Proposal |
| Type: | MOTION | Status: | | Status: | PASSED |
| File created: | 2/18/2020 | In control: | | In control: | Board of Trustees |
| On agenda: | 3/16/2020 | Final action: | | Final action: | 3/16/2020 |
| Title: | Consulting Engineering Services for 151st Street Lift Station Improvements - Proposal | | | | |
| Code sections: | | | | | |
| Attachments: | 1. Preliminary Design, 2. Signed - Contract | | | | |

| Date | Ver. | Action By | Action | Result |
|-----------|------|-------------------------|---------------------|--------|
| 3/16/2020 | 0 | Board of Trustees | | |
| 2/18/2020 | 0 | Public Works Department | INTRODUCED TO BOARD | |

Title/Name/Summary

Consulting Engineering Services for 151st Street Lift Station Improvements - Proposal

History

In 2015, RJN Group Inc. of Wheaton, Illinois (RJN) was selected, by a competitive proposal process, to perform the Village's Comprehensive Sanitary Sewer Evaluation Project over a five year period which was then renewed for an additional five years in 2020. A consultant was originally requested to guide the Village through the various technical processes to conform to new mandates issued by the Metropolitan Water Reclamation District (MWRD) Watershed Management Ordinance (WMO) as it relates to the reduction of inflow and infiltration (I&I) into the Village's sanitary sewer system.

Staff in conjunction with RJN Group identified a high priority area to investigate for I&I. The area tributary to the 151st Street Lift Station was chosen. The 151st Street Lift Station, located at 9100 151st Street, was put into service in 1972. The station handles a large portion of the eastern side of the village including Catalina, Teebrook, Golfview, Silver Lake West and Maycliff subdivisions. In 2018, the main sewer line that feeds the station was cleaned and inspected as part of the MWRD mandated high priority area maintenance. With this lift station handling the largest volume of sewage, it is the most critical lift station within the community sanitary sewer system. The station has the capacity to pump 10,000 gallons per minute of sewage using three (3), 100 HP motors. Staff will typically see this volume during heavy rain events.

As part of their contract, RJN was tasked to "provide assistance in developing and implementing a Village-wide comprehensive sanitary sewer system evaluation & repair program," for I&I. RJN has assisted in the establishment of some initial programs, parameters and bid documents for short term and long term operational activities. As a result of the I&I program, initially implemented in 2015, RJN is proposing to provide a report of design options for upgrading the configuration of the Lift Station including enlarging the top barrel sections of the wet well, relocating the pressure transducer & backup floats, assessing new operational setpoints, adding a bypass pumping valve/valve vault, determining the feasibility for a permanent onsite standby emergency bypass pump, and inspection of 1,972 linear feet of 20-inch iron force main.

It is staff's recommendation to accept the proposal from RJN Group, Inc. of Wheaton, Illinois in the amount of \$49,750 for Professional Engineering Services for force main inspection and preliminary design upgrades to the 151st Street Lift Station.

Financial Impact

There are sufficient funds available in the Water Fund Capital account 031-6003-443800.

Recommended Action/Motion

I move to approve accepting the engineering services proposal from RJN Group, Inc. of Wheaton, Illinois for PROFESSIONAL ENGINEERING SERVICES - 151ST ST. LIFT STATION WET WELL UPGRADES & 151ST ST. FORCE MAIN INSPECTION in an amount not to exceed \$49,750 for FY2020.