



# City of Grand Forks Staff Report

**APPROVED & ACCEPTED**  
by City Council

12/19/2016

*Maureen Storstad*  
Maureen Storstad  
City Auditor

**Committee of the Whole – December 12, 2016**  
**City Council – December 19, 2016**

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**Agenda Item:** Bids for City Project No. 7551 – Lift Station No. 17 & 17A Rehabilitation

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**Submitted by:** Engineering Department, Mark S. Walker, PE (Assistant City Engineer)

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**Staff Recommended Action:** Award Schedule B and C contracts to low bidders as follows: General Work to ICS, Inc. in the amount of \$1,072,850.00; Mechanical Work to C. L. Linfoot Co. in the amount of \$18,762.00; Electrical Work to Fusion Automation, Inc. in the amount of \$447,867.12; and Forcemain Work to Molstad Excavating, Inc. in the amount of \$95,275.00 for Project No. 7551 – Lift Station No. 17 & 17A Rehabilitation

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**Committee Recommended Action:**

Refer to City Council with the recommendation to approve.

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**Council Action:**

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## **BACKGROUND:**

Bids for this project were received on December 5, 2016. Bidders are allowed to submit bids for individual General, Mechanical, and Electrical work (Schedule B) or submit a bid for the combined work of the General, Mechanical, and Electrical work (Schedule A). Staff recommendation of award was then based upon the lowest combination of bids that resulted in the lowest price for the entire project. For this project, individual bids for the General, Mechanical, and Electrical work (Schedule B) resulted in a lower sum than the lowest bid for the combined work of the General, Mechanical, and Electrical work (Schedule A). In addition, the project included a separate package (Schedule C) to replace a section of forcemain.

This project is intended to renew Lift Station No. 17 and Lift Station No. 17A so that they can provide efficient and reliable service for the next 15 to 20 years. Both lift stations are located at 2401 N Columbia Road.

Lift Station No. 17 is one of two master stations that boost the pressure inside of the forcemain. This station does not have a wet well for gravity flow to drain into but rather the forcemain is piped through the station and pressure sensors are used to control the pumping rate of the station to pump sewage to the Wastewater Treatment Facility. This station utilizes four 125 HP pumps. The station was placed in operation in 1960 and was last rehabilitated in 1997. Many of the station components are at the end of their useful life. The majority of work proposed for this station will include installing new pumps and drives, new electrical switch gear and motor control center, new insulated rubber membrane roof, install structural reinforcing to bring roof capacity up to current code, piping changes, new check valves, new flow meters, new LED lighting, painting, ventilation modifications, safety updates, and other minor work.

Lift Station No. 17A is a much smaller station located directly adjacent to Lift Station No. 17 and collects sewage in a wet well. This station provides sanitary sewage service for properties along N Washington Street from Gateway Drive northward to the English Coulee. This station was placed in operation in 1966 and was last rehabilitated in 2005. The majority of work proposed for this station will include repair of significantly corroded concrete surfacing, replace pumps and drives, and other minor work.

Although not originally intended to be included in the original work scope, this project will include replacement of a section of forcemain pipe just downstream of the station. The interior of this section of forcemain was inspected during a recent project to install a bypass forcemain around the station this summer, and was found to be severely corroded. Lacking the ability to quickly find replacement fittings and pipe and the need to return the forcemain back into operation, it was decided to place the forcemain back into operation and include the forcemain replacement work under this project.

The City of Grand Forks owns and operates 40 Sanitary Sewage Lift Stations throughout the City. Two of these stations are master stations that boost the pressure inside of the forcemain and the remainder are individual lift stations. Sanitary sewage from within the City is collected at the individual lift stations where the sewage is then pumped into a force main system approximately 50 miles in length. Most of the sewage then passes through one of the two master lift stations and is ultimately delivered to the City Wastewater Treatment Facility. Periodically, these lift stations require rehabilitation to upgrade pumps, valves, piping, controls, electrical systems, ventilation systems, building structure, safety features, and other appurtenances. To avoid the need to rehabilitate a large number of these stations during a single fiscal year and cause a strain on the yearly budget, stations are prioritized and the station(s) most in need of repairs and upgrades are rehabilitated. Current City policy is to rehabilitate a sanitary lift station every 15 to 20 years.

On February 1, 2016, Council approved an Agreement with Webster, Foster, and Weston for Design, Bidding, and Construction Administration Engineering Services in the amount of \$228,955.00 for this project. Plans and Specifications for this project were approved by Council on November 7, 2016.

### **ANALYSIS AND FINDINGS OF FACT:**

- Bids were received on December 5, 2016.
- A total of 12 bids were received and all bids were opened.
- Bidders were allowed to submit bids for either Schedule A (combined bid for General, Mechanical, and Electrical work) or Schedule B (separate bids for General, Mechanical, and Electrical work) and were allowed to submit bids for Schedule C (Forcemain work).

- Award would then be based upon the lowest bid combination that would result in the lowest project cost.
- The lowest bids were based on separate bids (Schedule B) for the General, Mechanical, and Electrical work with the lowest General bid from ICS, Inc. in the amount of \$1,072,850.00; the lowest Mechanical bid from C. L. Linfoot Co. in the amount of \$18,762.00; the lowest Electrical bid from Fusion Automation, Inc. in the amount of \$447,867.12; and the lowest Forcemain bid from Molstad Excavating, Inc. in the amount of \$95,275.00
- The sum of the lowest bids recommended for award total \$1,634,754.12
- The Engineer's Estimate for this project is \$2,334,000.00.
- Based on the sum of the lowest bid received, the bids were approximately 30% below the Engineer's Estimate.
- Funding for this project will be from financing through the Bank of North Dakota loan program with repayment from the Wastewater Fund 5200.
- This project will replace, repair, and upgrade various equipment and appurtenances at the stations.
- The equipment and appurtenances proposed to be replaced during this project are near their life expectancy, worn out, in need of safety improvements, or otherwise unreliable.
- A separate project to install a forcemain bypass around Lift Station No. 17 was constructed this summer under a separate project and contract.
- It is intended to complete the Lift Station No. 17 Rehabilitation and Forcemain Bypass projects in advance of receiving wastewater from the City of East Grand Forks.

#### **SUPPORT MATERIALS:**

- Abstract of Bids Received (1 page)
- Project Location Map (1 page)

**BID SUMMARY-LIFT STATION 17 & 17A REHAB**  
 CITY OF GRAND FORKS PROJECT NO. 7551; WFW PROJECT NO. 20G390  
 December 5, 2016; 2:00 P.M. Local Time

	Add	BB	CL	NCA	SCHEDULE A GENERAL	SCHEDULE B GENERAL	SCHEDULE B MECHANICAL	SCHEDULE B ELECTRICAL	SCHEDULE C FORCEMAIN
<b>CC STEEL LLC</b> MAPLE PLAIN, MN	2	X	X	X	NO BID	\$1,241,450.00	NO BID	NO BID	\$221,000.00
<b>GMHR FIELD SERVICES</b> DICKINSON, ND									
<b>ICS, INC.</b> GRAND FORKS, ND	2	X	X	X	NO BID	<b>\$1,072,850.00</b>	NO BID	NO BID	NO BID
<b>JOHN T. JONES CONSTRUCTION CO.</b> FARGO, ND	2	X	X	X	\$1,731,800.00	\$1,177,900.00	NO BID	NO BID	\$123,975.00
<b>MEYER CONTRACTING INC.</b> MAPLE GROVE, MN									
<b>MOLSTAD EXCAVATING, INC.</b> GRAND FORKS, ND	2	X	X	X	NO BID	NO BID	NO BID	NO BID	<b>\$95,275.00</b>
<b>NORTHERN PLAINS CONTRACTING, INC</b> WOLVERTON, MN									
<b>RBB ELECTRIC, INC.</b> GRAND FORKS, ND	2	X	X	X	NO BID	NO BID	NO BID	\$471,416.00	NO BID
<b>STRATA CORPORATION</b> GRAND FORKS, ND									
<b>UNITED CRANE &amp; EXCAVATION, INC.</b> GRAND FORKS, ND	2	X	X	X	NO BID	NO BID	NO BID	NO BID	\$209,753.00
<b>MCFARLANE, INC.</b> GRAND FORKS, ND	2	X	X	X	NO BID	NO BID	\$28,700.00	NO BID	NO BID
<b>BERGSTROM ELECTRIC, INC.</b> GRAND FORKS, ND	2	X	X	X	NO BID	NO BID	NO BID	\$517,340.00	NO BID
<b>FUSION AUTOMATION INC.</b> GRAND FORKS, ND	2	X	X	X	NO BID	NO BID	NO BID	<b>\$447,867.12</b>	NO BID
<b>AE2S CONSTRUCTION, LLC</b> GRAND FORKS, ND	2	X	X	X	NO BID	NO BID	NO BID	\$494,000.00	NO BID
<b>C. L. LINFOOT CO.</b> GRAND FORKS, ND	2	X	X	X	NO BID	NO BID	<b>\$18,762.00</b>	NO BID	NO BID
<b>SAMSON ELECTRIC, LTD.</b> PARK RIVER, ND	2	X	X	X	NO BID	NO BID	NO BID	(blank) \$546,395.00	NO BID
ENGINEER'S ESTIMATE	2	5%	X	X	\$2,044,000.00	\$1,401,000.00	\$60,000.00	\$583,000.00	\$290,000.00
<b>APPARENT LOW BIDS</b>					\$1,731,800.00	\$1,072,850.00	\$18,762.00	\$447,867.12	\$95,275.00
<b>TOTAL APPARENT LOW BIDS, SCHEDULE B</b>						<b>\$1,539,479.12</b>			

# PROJECT LOCATION MAP

## GRAND FORKS, NORTH DAKOTA

### SANITARY SEWER LIFT STATION #17 & 17A REHABILITATION

PROJECT 7551

