



# City of Grand Island

Tuesday, December 13, 2016

Council Session

## Item G-11

**#2016-302 - Approving Award of Sanitary Sewer Collection System  
Mobile Flow Meters for the Wastewater Division of the Public  
Works Department**

Staff Contact: John Collins, P.E. - Public Works Director

# **Council Agenda Memo**

**From:** Marvin Strong PE, Wastewater Treatment Plant Engineer

**Meeting:** December 13, 2016

**Subject:** Approving Award of Sanitary Sewer Collection System Mobile Flow Meters for the Wastewater Division of the Public Works Department

**Presenter(s):** John Collins PE, Public Works Director

## **Background**

The Grand Island Sanitary Sewer Collection System receives excessive amounts of storm water during rain events and snow melts. The storm water is better known as I & I, or infiltration and inflow. Excessive I & I can reduce the capacity available in the sanitary sewer system to convey sewage, resulting in sewage overflowing at sanitary sewer manholes (SSOs – sanitary sewer overflow) which can generate fines and back sewage up into homes during peak flows. Excessive I & I can also increase pumping and treatment costs, as well as the capital costs associated with installing new sanitary sewers (larger pipes, pumps and/or tanks or additional wastewater treatment facilities).

On February 9, 2016, via Resolution No. 2016-27, City Council approved the purchase of four (4) Teledyne Isco Signature sanitary sewer flow meters in the total amount of \$65067.374 from the Minnesota State bid list vendor, gpm of Blair, Nebraska. These meters have been installed permanently in their locations.

## **Discussion**

Wastewater Division staff would like to acquire three (3) mobile flow meters, which will allow for further reduction of I & I, identification of chloride amounts, and measure flows within the collection system. The mobility of these meters will enable data to be gathered as needed in various locations of the City without having to purchase a meter for each location/instance.

The Teledyne Isco Signature sanitary sewer flow meters that were purchased in February of this year have proven to be a good addition and work well in our system, therefore it is requested the same brand of meter be purchased for the mobile meters. These flow meters are manufactured in Nebraska; are considered one of the best flow meters available today; and appear on the Minnesota State bid list, which the City is a member of. The

cost for three (3) mobile flow meters is \$19,802.00, which includes software, licensing, battery holders, installation pole, mounting rings, maintenance kit, and freight. The quote is attached for further review.

There are sufficient funds for this purchase in Account No. 53030055-85213-53009.

### **Alternatives**

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

### **Recommendation**

City Administration recommends that the Council approve the purchase of three (3) mobile Teledyne Isco Signature Flow Meters from gpm of Blair, Nebraska in the total amount of \$19,802.00.

### **Sample Motion**

Move to approve the resolution.



10633 County Road 26  
 Blair, NE 68008  
 Phone: 402-571-1303  
 Fax: 402-502-6662

# Quotation

DATE: 11-10-16  
 QUOTE #101116-00

Please address purchase orders to **GPM**

**Quotation Prepared For:**  
**John Rundle**  
 Maintenance Supervisor  
 Grand Island Waste Water Treatment  
 City of Grand Island  
 100 East First Street  
 Grand Island, NE 68802  
 P. 308-390-5480  
[johnr@grand-island.com](mailto:johnr@grand-island.com)

\*Coop Pricing, January 1 2016

**RE: ISCO Flowmeter Items**

Item	Qty	Part Number	Description	Unit Price	Total Price
1	3	604307074	CDMA cellular modem with magnetic mount antenna for Signature® meter. Serial-Over-Internet-protocol (SOIP) technology eliminates need for computer telephone modems. Requires Verizon service. Contact the factory for details regarding Verizon service requirements. *** These modems won't ship from the factory until they have been setup with Verizon and then tested(by ISCO) ISCO will produce a MEID number for each modem which will need to be provided to Verizon for the setup of a new cell(phone) number and IP address.	\$1,195.00	\$3,585.00
2	1	682540276	Flowlink Pro software, two total licenses. Supplied on CD-ROM. For retrieving flow, rainfall, parameter and sample data from Isco 2100 Series Modules and 2100 Field Wizard, 4100 Series Flow Loggers, 4200 Series Flow Meters, Pulsed Doppler Flow Meters, 6700 Series/Avalanche Samplers, 676 and 677 Logging Rain Gauge Systems, and 581 Rapid Transfer Device. Stores data in a Microsoft SQL or Oracle central database and generates a variety of graphs and tables from stored data. Data can also be exported in ASCII format for analysis by programs such as Microsoft Excel, HTML format for viewing in a web browser, and PDF format for viewing in Adobe Reader. Server software to support central database connections, pushed instrument data, server alarms, and web display of data. Flowlink Server operates on Windows Server 2003 and Server 2008. Enterprise database software required but not included.	\$3,085.00	\$3,085.00
3	1	682540209	Flowlink 5.1 software, two user licenses. Special pricing for Flowlink 5.0 users. *** S/N 206A01994	\$130.00	\$130.00

4	1	682540280	Flowlink Global One year Subscription for ONE database access. *Annually Renewed	\$1,200.00	\$1,200.00
5	2	602004135	Area Velocity Sensor for 2150 Flow Module with 10 ft. (3 m) Level Measurement Range and 33 ft. (10 m) cable. Contact the factory for cable lengths up to 75 ft. (23 m)	\$1,080.00	\$2,160.00
6	2	682000001	Carrying handle with suspension strap. For 2100 System with one to four modules plus 2191 Battery Module.	\$96.00	\$192.00
7	2	602004006	2191 Battery Module. Includes 2 battery holders.	\$675.00	\$1,350.00
8	2	682000098	2103ci CDMA Cell Phone Package with 60-2004-550 magnetic mount dual band antenna. This stack-on module provides wireless communications (configuration, data retrieval, push data, text message alarms) with the 2100 Series site. Powered from the module stack. Requires customer provided Verizon account with static IP service, paid by customer.	\$2,200.00	\$4,400.00
9	1	602004507	USB Communication Cable, 10 ft. (3 m). Connects 2100 Series Module top connector to PC with USB connector.	\$245.00	\$245.00
10	2	603204012	Street Level Installation Tool Multi-section pole. Includes one 2-1/2 ft. pole section with adapter for attaching mounting ring, six 2-1/2 ft. pole sections, and instruction manual.	\$670.00	\$1,340.00
11	2	603204015	Street Level Installation Tool Mounting Ring for 8 inch diameter pipe. Includes strap.	\$230.00	\$460.00
12	2	603204016	Street Level Installation Tool Mounting Ring for 10 inch diameter pipe. Includes strap.	\$230.00	\$460.00
13	2	603204017	Street Level Installation Tool Mounting Ring for 12 inch diameter pipe. Includes strap.	\$230.00	\$460.00
14	2	603204018	Street Level Installation Tool Mounting Ring for 15 inch diameter pipe. Includes strap.	\$230.00	\$460.00
15	2	602059001	Maintenance Kit for 2100 Module. Includes five O-rings for connectors, silicon grease for O-ring lubricant, hydrophobic filter, one O-ring for desiccant cartridge, desiccant, and instructions.	\$37.00	\$74.00

<b>Subtotal</b>	\$19,601.00
<b>Freight</b>	\$201.00
<b>TOTAL</b>	<u>\$19,802.00</u>

**TERMS AND CONDITIONS:**

1. Prices Valid 30 Days
2. Freight estimated
3. Delivery 2-4 weeks

*Customer Acceptance (sign below):*

x \_\_\_\_\_  
Accepted by: Title: Date: PO#

If you have any questions about this price quote, please contact:  
**Justin Meader, P. 402-571-1303, [justin@gpmweb.net](mailto:justin@gpmweb.net)**

***Thank You For Your Business!***

RESOLUTION 2016-302

WHEREAS, the Wastewater Division of the Public Works Department for the City of Grand Island, budgeted for mobile sanitary sewer flow meters in the 2016/2017 fiscal year; and

WHEREAS, said flow meters, Teledyne Isco Signature brand, can be obtained from the Minnesota State bid list, which the City is a member of; and

WHEREAS, purchasing such flow meters from the Minnesota State bid list meets all statutory bidding requirements; and

WHEREAS, the funding for these sanitary sewer flow meters is provided in the 2016/2017 budget.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the purchase of three (3) Teledyne Isco Signature mobile sanitary sewer flow meters in the total amount of \$19,02.00 from the Minnesota State bid list vendor, gpm of Blair, Nebraska, is hereby approved.

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Adopted by the City Council of the City of Grand Island, Nebraska, December 13, 2016.

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Jeremy L. Jensen, Mayor

Attest:

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RaNae Edwards, City Clerk

Approved as to Form	☒ _____
December 9, 2016	☒ City Attorney