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**VILLAGE PRESIDENT**

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**VILLAGE CLERK**

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**VILLAGE ADMINISTRATOR**

CARIE ANNE ERGO

**VILLAGE TRUSTEES**

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ELLEN LEAHY

FRANK J. MADARAS

PATRICK POWERS

## MEMORANDUM

**TO:** Carie Anne Ergo, Village Administrator  
**FROM:** Michel Subers, Public Works Director  
**DATE:** February 16, 2023  
**SUBJECT** Accepting the Low Bid from Core and Main for the Water Meter and AMR/AMI Program

**RECOMMENDED MOTION:** Move to approve a resolution Accepting the Low Bid from Core and Main for the Water Meter and AMR/AMI Program

### INTRODUCTION

Public Works held a public bid opening on February 6<sup>th</sup>, 2023, for the Water Meter and AMR/AMI program. One bid was received from Core and Main with a total bid amount of \$1,447,731 for the installation of Sensus water meters and automated metering infrastructure (AMI).

### DISCUSSION

The project scope included replacement of approximately 2,718 primarily residential water meters that have reached the end of their life. The residential population of water meters were last replaced between 2002 and 2006 and have a 20-year life expectancy. There has been an increase of failing water meters due to age with staff replaced 10 during the first half of February 2023. Core and Main will also install automated metering infrastructure and provide system software applications and training. During the project, Core and Main will be responsible for coordinating the installation with approved Village notifications to the residents.

Staff will continue to replace our commercial meters population (1.5” and larger) and complete the project this year as well. When staff completes the installation of large meters in fiscal year 2024, the Village will have saved an estimated \$160,000 by having staff perform the large meter installations.

When the AMI system goes live, meter reads will automatically occur and be stored on host servers to be downloaded for billing and will ensure accurate billing cycles. The Village will also have the capability to be notified of potential leaks in customers’ homes prior to a resident receiving a high-water bill. The system also has the capability to perform real time leak detection with the deployment of data loggers and may be used offset costs for our annual leak detection program.

**FISCAL IMPACT**

The Village currently has \$1,500,000 budgeted in the water capital budget line 55-51-73003. The additional budgeted allocation of approximately \$50,000 above the contract price is for unforeseen plumbing issues in the field such as removal and reinstallation of hot water heaters etc. outlined in Part B of the bid tabulation. There will also be fees from Tyler for the creation of data transfer files during water meter installation and the automated water meter reading which will be incurred by the Village and are included in the budgeted amount.

**STAFF RECOMMENDATION**

Staff recommends the item be forwarded to the Committee of the Whole on February 21<sup>st</sup>, 2023, for consideration and approval.

**ATTACHMENTS**

1. Bid Tabulation

# Village of Itasca

## Bid Tabulation



Bid Number: 2023-01

Project Name: Water Meter and AMR/AMI Program

Bid Openng Date: 2/6/23

Core and Main			
BID SHEET- PART A			
Meter w/ Radio			
Size	Quantity	Unit Price	Amount
5/8 x 3/4 w/Radio	921	\$ 229.00	\$ 210,909.00
3/4 x 3/4 (7 ½ LL) w/Radio	349	\$ 255.00	\$ 88,995.00
1" w/Radio	1420	\$ 289.00	\$ 410,380.00
1-1/2" w/Radio	28	\$ 1,247.00	\$ 34,916.00
2" w/Radio	32	\$ 1,436.00	\$ 45,952.00
3" w/Radio	0	\$ 1,607.00	\$ -
4" w/Radio	0	\$ 2,862.00	\$ -
6" w/Radio	2	\$ 5,767.00	\$ 11,534.00
8" w/Radio	0	\$ 8,701.00	\$ -
10" w/Radio	1	\$ 19,507.00	\$ 19,507.00
<b>Total Part A</b>			<b>\$ 822,193.00</b>
BID SHEET- PART B			
Labor to Install			
Size	Quantity	Unit Price	Amount
5/8 x 3/4 w/Radio	921	\$ 177.00	\$ 163,017.00
3/4 x 3/4 w/Radio	349	\$ 177.00	\$ 61,773.00
1" w/Radio	1420	\$ 177.00	\$ 251,340.00
1-1/2" w/Radio	28	\$ 395.00	\$ 11,060.00
2" w/Radio	32	\$ 400.00	\$ 12,800.00
3" w/Radio	0	\$ 815.00	\$ -
4" w/Radio	0	\$ 1,065.00	\$ -
6" w/Radio	2	\$ 2,440.00	\$ 4,880.00
8" w/Radio	0	\$ -	\$ -
10" w/Radio	1	\$ 9,935.00	\$ 9,935.00
<b>Total Part B</b>			<b>\$ 514,805.00</b>
BID SHEET- PART C			
AMI			

Item	Quantity	Unit Price	Amount
Handheld Unit	0	\$ 7,250.00	\$ -
Project management	1	\$ 6,000.00	\$ 6,000.00
Tower Gateway Base Station	1	\$ 28,500.00	\$ 28,500.00
Tower Gateway Base Station Installation	1	\$ 15,000.00	\$ 15,000.00
AMR Programming	1	\$ 7,500.00	\$ 7,500.00
AMR Data Conversion	1	\$ 9,500.00	\$ 9,500.00
Hosting Option			
SA/RNI Setup Fee	1	\$ 15,750.00	\$ 15,750.00
Integration Fee	1	\$ 5,000.00	\$ 5,000.00
Training	1	\$ 6,350.00	\$ 6,350.00
Data Collector Annual Maintenance	1	\$ 2,000.00	\$ 2,000.00
Year 1 (Annual Hosting Fee)	1	\$ 15,133.00	\$ 15,133.00
		<b>Total Part C</b>	<b>\$ 110,733.00</b>
<b>Contract Price (A,B and C)</b>			<b>\$ 1,447,731.00</b>

## Additional Bid Items

### Per Item w/ labor

Item	Quantity	Unit Price
Meter wire rewire	<u>as needed</u>	<u>\$</u> _____ /foot
Ground Strap Jumper Wire	<u>as needed</u>	<u>\$</u> _____ ea
Interior Shut-off Vave Replacement (Owner's Cost)	<u>as needed</u>	<u>\$</u> _____ ea
3/4" Meter resetter	<u>as needed</u>	<u>\$</u> _____ ea
1" Meter resetter	<u>as needed</u>	<u>\$</u> _____ ea
1.5" Meter Flange x 1.5" Meter Swivel Nut	<u>as needed</u>	<u>\$</u> _____ ea
2" Meter Flange x 2" Meter Swivel Nut	<u>as needed</u>	<u>\$</u> _____ ea
Copper Seal Wire	<u>as needed</u>	<u>\$</u> _____ ea
Lead Seal	<u>as needed</u>	<u>\$</u> _____ ea
End Point installation only	<u>as needed</u>	<u>\$</u> _____ ea
Relocation of Water meter	<u>as needed</u>	<u>\$</u> _____ ea
Hot water heater removal/install	<u>as needed</u>	<u>\$</u> _____ ea

	R1	R2	RU	C	
5/8	888	15		18	921
3/4	296	9		44	349
1	1352	4	13	51	1420
1 1/2	17	11			28

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# BID SHEET- PART A

## Meter w/ Radio

Size	Quantity	Unit Price	Amount
5/8 x 3/4 w/Radio	921	\$	\$
3/4 x 3/4 (7 1/2 LL) w/Radio	349	\$	\$
1" w/Radio	1,420	\$	\$
1-1/2" w/Radio	28	\$	\$
2" w/Radio	32	\$	\$
3" w/Radio	-	\$	\$
4" w/Radio	-	\$	\$
6" w/Radio	2	\$	\$
8" w/Radio	-	\$	\$
10" w/Radio	1	\$	\$
Total Part A			\$

### Optional Pricing (Do Not Include in Part A)

Additional Radio \_\_\_\_\_ \$ \_\_\_\_\_

# BID SHEET- PART B

## Labor to Install

Size	Quantity	Unit Price	Amount
5/8 x 3/4 w/Radio		\$	\$
3/4 x 3/4 w/Radio		\$	\$
1" w/Radio		\$	\$
1-1/2" w/Radio		\$	\$
2" w/Radio		\$	\$
3" w/Radio		\$	\$
4" w/Radio		\$	\$
6" w/Radio		\$	\$

8" w/Radio	_____	\$ _____	\$ _____
10" w/Radio	_____	\$ _____	\$ _____

Total Part B \$ \_\_\_\_\_

## BID SHEET- PART C

### AMI

Item	Quantity	Unit Price	Amount
Handheld Unit	_____	\$ _____	\$ _____
Project management	_____	\$ _____	\$ _____
Tower Gateway Base Station	_____	\$ _____	\$ _____
Tower Gateway Base Station Installation	_____	\$ _____	\$ _____
AMR Programming	_____	\$ _____	\$ _____
AMR Data Conversion	_____	\$ _____	\$ _____

### Hosting Option

SA/RNI Setup Fee	_____	\$ _____	\$ _____
Integration Fee	_____	\$ _____	\$ _____
Training	_____	\$ _____	\$ _____
Data Collector Annual Maintenance	_____	\$ _____	\$ _____
Year 1 (Annual Hosting Fee)	_____	\$ _____	\$ _____
Total Part C			\$ _____





