



**COUNTY OF HENRICO
DEPARTMENT OF FINANCE
PURCHASING DIVISION
CONTRACT EXTRACT
NOTICE OF RENEWAL**

DATE:	February 24, 2023
CONTRACT COMMODITY/SERVICE: <i>(include contracting entity if cooperative)</i>	Water Meters & Fire Hydrant Meters
CONTRACT NUMBER:	2339A
COMMODITY CODE:	890.44
CONTRACT PERIOD:	July 1, 2023 through June 30, 2024
RENEWAL OPTIONS:	3 Additional 1-year renewals through 2027
USER DEPARTMENT:	County
Contact Name:	Marchelle Sossong
Phone Number:	804-501-7341
Email Address:	sos@henrico.us
HENRICO COOPERATIVE TERMS INCLUDED:	Yes
SUPPLIER: Name:	Badger Meter, Inc.
Address:	4545 W. Brown Deer Road
City, State:	Milwaukee, WI 53224
Contact Name:	Charla Dury, Ron Lilley
Phone Number:	800-876-3037, 336-971-9601
Email address:	cdury@badgermeter.com rlilley@badgermeter.com
ORACLE SUPPLIER NUMBER:	1811
BUSINESS CATEGORY:	Non Swam
PAYMENT TERMS:	Net 30
DELIVERY:	As needed and requested
FOB:	County of Henrico
BUYER: Name:	Kniles Mitchell
Title:	Procurement Analyst I
Phone:	804-501-5638
Email:	mit099@henrico.us

This contract is the result of a competitive solicitation issued by the Department of Finance, Purchasing Division. A requisition must be generated for all purchases made against this contract and the requisition must reference the contract number.

Appendix A

<u>Item No.</u>	<u>Item Description</u>	<u>Unit Price</u>
1	5/8" Meter with Itron connection cable Badger Meter RCDL M25	\$ 106.04
2	1" Meter with Itron connection cable Badger Meter RCDL M55	\$ 171.45
3	1 1/2" Meter with Itron connection cable Badger Meter RCDL M120	\$ 365.01
4	2" Meter with Itron connection cable Badger Meter RCDL M170	\$ 529.60
5	3" Compound Meter with strainer and Itron connection cable Badger Meter RCDL Compound Series Meter	\$ 2,282.07
6	4" Compound Meter with strainer and Itron connection cable Badger Meter RCDL Compound Series Meter	\$ 3,510.62
7	6" Compound Meter with strainer and Itron connection cable. Badger Meter RCDL Compound Series Meter	\$ 4,988.02
8	3" Fire Hydrant Meter Badger Meter RCDL Turbo 450 FHM	\$ 1,282.95



COMMONWEALTH OF VIRGINIA

County of Henrico

Goods Contract
Contract No. 2339A

This Goods Contract (this "Contract") entered into this 30th day of June 2022, by the County of Henrico, Virginia (the "County") and Badger Meter Inc., a Virginia corporation, and its successors it assigns (the "Contractor").

SCOPE OF CONTRACT: The Contractor shall furnish all materials, equipment, and labor necessary to provide inside delivery of Water Meters and Fire Hydrant Meters to the County as set forth in the Contract Documents.

COMPENSATION: The compensation the County will pay to the Contractor under this Contract shall be in Appendix A.

CONTRACT TERM: The Contract term shall be for a period of one year beginning July 1, 2022 and ending June 30, 2023. The County may renew the Contract for up to 4 additional one-year terms giving 30 days' written notice before the end of the term unless Contractor has given the County written notice that it does not wish to renew at least 90 days before the end of the term.

CONTRACT DOCUMENTS: This Contract hereby incorporates by reference the documents listed below (the "Contract Documents") which shall control in the following descending order:

- 1. This Goods Contract between the County and Contractor.
2. Invitation for Bid No. 22-2339-4MEJ, dated May 13, 2022 (as modified by any addenda).
3. The Contractor's bid dated June 9, 2022.

IN WITNESS WHEREOF, the parties have caused this Contract to be duly executed intending to be bound hereby.

Badger Meter, Inc.
4545 W. Brown Deer Road
Milwaukee, WI 53224

Signature (Handwritten signature of Charla D. Dury)

Charla D. Dury, Proposal Lead and Assistant Secretary
Printed Name and Title

July 15, 2022
Date

County of Henrico, Virginia
P.O. Box 90775
Henrico, VA 23223-0775

Signature (Handwritten signature of Oscar Knott)
Digitally signed by: Oscar Knott
DN: CN = Oscar Knott email = kno008@henrico.us C = US O = County of Henrico, Virginia OU = Department of Finance - Purchasing Division
Date: 2022.07.19 14:09:29 -0400

Oscar Knott, CPP, CPPO, VCO
Purchasing Director

7/19/22
Date

APPROVED AS TO FORM:

Allison L. Bridges, Esq.
Asst. County Attorney 7/14/2022

I. SCOPE OF WORK/SERVICES

A. Purpose.

The intent and purpose of this Invitation for Bid is to establish a term contract with a qualified supplier to furnish and provide inside delivery of Water Meters and Fire Hydrant Meters to the County of Henrico, Virginia (the "County") Department of Public Utilities, as needed and requested in accordance with the enclosed general terms, conditions and specifications.

B. Cooperative Procurement.

This procurement is being conducted by the County of Henrico, Virginia on behalf of all other public bodies of the Commonwealth of Virginia in accordance with the provisions of 2.2-4304 of the Code of Virginia, as amended. If agreed to by the Successful Bidder, other public bodies of the Commonwealth of Virginia may make purchases under the resulting contract at the prices set forth herein and in accordance with its terms, conditions and specifications, subject to any modifications necessary to comply with local policy or practice to which the Successful Bidder agrees. The Successful Bidder shall deal directly with any public body it authorizes to use the resulting contract. The County, its officials and its staff are not responsible for placement of orders, invoicing, payments, contractual disputes, or any other transactions between the Successful Bidder and any other public bodies, and in no event shall the County, its officials or staff be responsible for any costs, damages or injury resulting to any party from use of a County contract. The County assumes no responsibility for any notification of the availability of the resulting contract for use by other public bodies, but the Successful Bidder may conduct such notification.

C. Specifications.

1. Displacement Type Meters:

a) Cases:

All meters shall have a non-corrosive outer case of bronze material. Each meter shall be equipped with a frost protection device or system. Meter bottoms may be made of cast iron (with an inner liner for corrosion protection) or a suitable synthetic polymer material. The 5/8" through 1" meters shall be bottom loading solid case, 1 1/2" and 2" meters shall be split case type with bronze upper and lower shell assemblies. Register boxes and lids may be made of either bronze or a suitable synthetic polymer material.

b) Registers and Intermediate Gear Train:

- i. Registers shall be of the LCD encoder type, straight reading in cubic feet. The encoders shall meet or exceed all applicable requirements of the latest revisions of AWWA Standard C707. The readings shall be digitally displayed and include a separate flow detector device. The registers shall have both underlined and non-underlined numbers. The underlined numbers represent the billable units. Registers must be sent in 6 dial mode. The use**

- of encoder units mounted external to the meter register will not be acceptable. The use of pulse type registers will not be acceptable.
- ii. The intermediate gear train shall be built in the register. Reduction gears may be of brass or molded plastic construction. Actuating power shall be transmitted by means of a two-piece permanent magnet drive coupling.
 - iii. The register and intermediate gear train shall be housed in a hermetically and permanently sealed enclosure constructed of materials that are corrosion resistant and waterproof. The encoder bottom and electronics shall be sealed, protected, and able to continuously function in flooded or submerged environments. The register lens shall not fog, cloud or collect condensation on the inside. The register shall be designed to be tamper proof and the lens shall be heat-treated glass or shatter resistant molded polymer lens.
 - iv. Bidders will provide meter register information and layouts for each size meter included in their bid form. Failure to provide this information may cause your bid to be declared non-responsive.

c) Marking:

The serial numbers of the meters shall be plainly stamped on both register box lid and case of all meters. All serial numbers should be readable when viewed from the top. Each meter shall have a bar code number label in addition to the serial number stamped on the meter. The bar code label shall be located on the bottom of the meter.

d) Measuring Chambers:

- i. Meter measuring chambers shall be bronze or synthetic polymer construction and disc meter must be equipped with a disc having a removable thrust roller. For 5/8" through 1" disc meters, the roller shall operate radially and be restrained from end movement by a channel bearing or the thrust rollers shall operate against a flat removable insert. Thrust rollers in 1 1/2" and 2" disc meters shall operate against a flat removable insert.
- ii. In piston meters, the measuring chamber piston shall operate against a replaceable control or thrust roller for measuring chamber repair to AWWA standards.
- iii. Measuring chambers of the 1 1/2" and 2" size shall be set for maximum flow at the inlet where provision is made for adjustment.

e) Strainers:

All meters shall have internal non-corrosive strainers.

f) External Bolts and Washers:

All external bolts and washers shall be of a non-corrosive material and easily remove from the main case after extended periods of service. No shear pin bolts will be allowed under this specification.

g) Connection:

Main case connections for 5/8" through 1" meters shall be threaded spuds. The 1 1/2" and 2" meters shall be 2 bolt oval flange style.

h) Automatic Meter Reading (AMR) Recorder Transmitter:

i. Successful Bidder shall provide meters which are compatible with the existing Henrico AMR system which uses Itron mobile collectors and handheld units. Meters shall be compatible with Itron Model 100W Electronic Recorder Transmitter, ERT-1300-403, 3 port. Successful Bidder shall provide each meter with an ERT mounting bracket to allow the ERT to be mounted on the meter body. Successful Bidders shall provide each meter with an Itron 60" long cable to allow the ERT unit to be separately field mounted in the meter box. Successful Bidder shall provide an Itron submersible cable connector to allow the meter and ERT to be disconnected in the field.

i) Manuals:

The Successful Bidder shall provide two copies of parts and maintenance manuals for all meters bid. Electronic (CD) type manuals are acceptable.

j) Required Vendor Information:

1. The Successful Bidder shall include with every shipment an inventory file that includes, but is not limited to, the following information:

- i. Meter size;
- ii. Meter model;
- iii. Meter number;
- iv. Manufacturers test data (low, medium, high);
- v. Ship data; and,
- vi. Warranty end dates.

2. The Successful Bidder shall provide a new meter Excel inventory file that can be used by the Department of Public Utilities to automatically populate the meter billing system inventory log. The successful bidder shall make modifications as needed or requested to the file structure so that it is acceptable to the County. (See Sample Below)

Data Field	Type	Length	Notes
Meter Number	Character	8	
Manufacturer Serial Number	Character	25	May be the same as the meter number
Purchase Date	Date	10	Format of MM/DD/YYYY
Warranty End Date	Date	10	Format of MM/DD/YYYY
Test data –low	Character	8	
Test data –med	Character	8	
Test data –high	Character	8	
Meter Type	Character	8	Establish an alpha-numeric system that identifies Model- Can be stock code from Successful Bidder.
Meter Size	Number	3	58 for 5/8", 15 for 1.5", 01 for 1", 02 for 2", 03 for 3", etc.
Manufacturer	Character	30	
Units Read	Character	8	Hundred Cubic Feet, (CCF)
Number of Dials	Number	6	

2. 3", 4" and 6" Compound Meters:

a) Additional Specifications:

- i. The compound meters shall consist of a low flow positive displacement chamber and a turbine chamber for recording higher flows. All meters shall have a non-corrosive outer housing of bronze material. Each meter shall be equipped with a frost protection device or system. Each meter shall be equipped with a strainer. Register boxes and lids may be made of either bronze or a suitable synthetic polymer material.
- ii. The compound meters shall meet the requirements listed above for displacement meters, unless otherwise specified herein. Registers and AMR Transmitters are required, as specified above.

b) Connections:

Main case connections for all compound meters shall be either 4 or 8 bolt round flange style, depending on meter size.

3. Fire Hydrant Meters:

a) Additional Specifications:

- i. The Successful Bidder shall provide 3" turbine type meters for use as fire hydrant meter complete with internal check valve system or external check valve, gate valve and City of Richmond type male 2 ½" outlet coupling. Each Fire Hydrant meter shall be provided with carrying handles and mounting feet. Provide fire hydrant meter assemblies including the meter, valves and couplings which comply with NSF lead free requirement.
- ii. Meters shall comply with ANSI/AWWA Standard C701 class II and each meter will be tested for compliance. Testing shall be performed by the Successful Bidder at no cost to the County of Henrico. The Successful Bidder will ensure a Certification of Compliance is attached to each Fire Hydrant Meter prior to shipping. Certification of Compliance can be in the form of a test tag affixed to each meter detailing the test results. Fire Hydrant Meters shipped without a Certificate of Compliance will be rejected and returned at the Successful Bidders expense.
- iii. Meters shall be shipped to the County as a fully assembled unit complete with 3" Meter; 3" check valve, 3" gate valve, and City of Richmond type male 2 ½" outlet coupling.
- iv. The Successful Bidder shall provide each meter with a flow restriction plate or orifice to limit the maximum flow rate to approximately 600 Gallons Per Minute, (GPM).

b) Cases:

All meters shall have a non-corrosive outer case of bronze or cast aluminum and provided with carry handles. Register boxes and lids shall be made of bronze or a suitable synthetic polymer material.

c) Registers and Intermediate Gear Train:

- i. Registers shall be of the LCD encoder type, straight reading in cubic feet. The readings shall be digitally displayed and include a separate flow detector device. The registers shall have both underlined and non-underlined numbers. The underlined numbers represent the billable units. Registers must be sent in 6 dial mode. The use of encoder units mounted external to the meter register will not be acceptable. Provide permanently sealed register incorporating a bayonet style locking mechanism with tamper prevention device.
- ii. The intermediate gear train shall be built in the register with reduction gears made of brass or molded plastic construction.
- iii. The register lens shall not fog, cloud or collect condensation on the inside. The register shall be designed to be tamper proof and the lens shall be heat-treated glass.

d) Marking:

The serial number shall be plainly stamped on the register box lid and case of all meters. All serial numbers shall be readable when viewed from the top.

e) Measuring Chamber:

Measuring chambers shall be bronze or polymer construction.

f) External Bolts and Washers:

All external bolts and washers shall be of stainless steel or other non-corrosive material.

g) Manuals:

The Successful Bidder shall provide two copies of parts and maintenance manuals for all meters bid. Electronic (CD) type manuals are acceptable.

D. General Requirements.

Meter Specifications and Manufacturer Qualification:

1. All meters shall be constructed in accordance with American Water Works Association, (AWWA) C700 latest revision "Standard Specification for Cold Water Meters – Displacement Type" and AWWA C701 latest revision "Standard Specification for Cold Water – Turbine Type meter for fire hydrant service." This specification shall prevail over any details in conflict with AWWA Specifications C700 and C701. Displacement meters may be oscillating-piston or nutating-disc. All meters bid shall comply with the guidelines set forth for lead levels and shall be constructed in accordance with the latest requirements and guidelines of the National Science Foundation, (NSF), American National Standards Institute, (ANSI) and Environmental Protection Agency, (EPA).
2. Water meter manufacturers shall have a minimum of 10 years' experience with the manufacture and supply of similar type water meters to other utilities in the United States of America and have supplied a minimum of 500,000 displacement type water meters meeting the requirements of AWWA C700 and shall provide evidence of such if so requested.
3. Meters shall be compatible with Itron Model 100W Electronic Recorder Transmitter, ERT-1300-403, 3 port.

E. Quality Control:

1. All meters shall be factory pressure tested and tested for accuracy of registration at flow rates and test flow quantities in accordance with ANSI/AWWA C700.
2. The Successful Bidder shall provide certification indicating that each meter supplied to the County has been tested for accuracy of registration and complies with the accuracy and capacity requirements of ANSI/AWWA C700.
3. Henrico County acknowledges that technological advancements and product improvements are continuous. If the current meters are discontinued during this contract period, the Bidder shall provide Henrico County with at least 6 months' advance notice and provide the newest meter model that conforms to these specifications at a price that does not exceed the prices quoted with this contract.

F. Warranty and Maintenance Program:

1. The meters shall be guaranteed to perform to the following AWWA new meter accuracy standards from date of shipment or registered flow, whichever occurs first:
 - a) 5/8" - 5 years or 750,000 gallons.
 - b) 1" - 5 years or 1.0 million gallons.
 - c) 1 1/2" - 2 years or 1.6 million gallons.
 - d) 2" - 2 years or 2.1 million gallons.
2. The meters shall be guaranteed to perform to the following AWWA repaired meter accuracy standards from date of shipment or registered flow, whichever occurs first:
 - a) 5/8" - 15 years or 2.5 million gallons.
 - b) 1" - 15 years or 3.0 million gallons.
 - c) 1 1/2" - 15 years or 5.6 million gallons.
 - d) 2" - 15 years or 10.4 million gallons.
3. Registers for meters shall be guaranteed for a period of no less than 10 years from the date of shipment.
4. All meters returned for repairs shall be returned to the County with a detailed report for each unit which describes the cause of problem and the repairs made to the unit being returned. Any returned, repaired, or replaced meters shall be accompanied with an Excel Inventory File, as detailed in Paragraph I B 1 j (2) above. Meters shall be returned to the County within 90 days from the date they were sent to the Successful Bidder for repair.

H. Delivery Requirements.

1. Meters and Fire Hydrants will be shipped and delivered as a complete shipment; in accordance with the quantities indicated on the County of Henrico Purchase Order, partial orders or back orders are not acceptable.
2. The Successful Bidder shall notify the County, Department of Public Utilities within five business days prior to the actual delivery date. The point of contact for arranging deliveries shall be the Warehouse Manager who can be reached at 804-727-8780.
3. Deliveries shall be made with 30 days after receipt of order.
4. The Successful Bidder shall deliver the meters to the following location:

County of Henrico
Department of Public Utilities
10401 Woodman Road
Glen Allen, VA 23060

I. Invoicing Requirements.

1. The meters shall be invoiced together and reference the Purchase Order number.
2. The Successful Bidder shall send invoices to the following address:

County of Henrico
Department of Public Utilities
Warehouse Manager
10401 Woodman Road
Glen Allen, VA 23060