COUNTY OF MONTGOMERY

PURCHASING DEPARTMENT 755 ROANOKE STREET, Suite 2C CHRISTIANSBURG, VA 24073-3179 PHONE (540) 382-5784 | FAX: (540) 382-5783 Jeff Groseclose CPPB, Procurement Manager

INVITATION FOR BID # 24-01 issued August 31, 2023 ADDENDUM NUMBER 1

DATE: August 31, 2023

TITLE: Fire Hydrant Maintenance and Flow Testing

Amendments:

1. No further questions will be accepted after the issuance of this addendum.

Clarification:

1. Question: Are all 360 hydrants to be painted during the first year or just the hydrants that need painting?

Montgomery County Response: Yes all hydrants should be painted and tops to be color coded according to flow

2. Question: Hydrants to be painted: are the hydrants to be sand blasted or just wire brushed for cleaning?

Montgomery County Response: wire brushed

3. Question: On pp 3 of the RFP, it states that "... residual pressure readings from another/different hydrant than that being flow tested is not required...". We interpret this type of residual pressure reading for flow testing to imply the flow test will be a "single hydrant" flow test. This is not how fire flow testing should be conducted per the AWWA M17 Manual on Fire Hydrants. We just want to make sure the flow testing is for a "single hydrant" style of test. Please clarify.

Montgomery County Response: Flow test must comply with AWWA standards

4. Question: There is no hydrant flow data collection procedure outlined in the RFP. Please detail the data that is expected to be collected from the field. (static pressure, residual pressure, estimation of gallons flowed and flow rate attained during test, etc.).

Montgomery County Response: Static pressure, residual pressure, flow rate attained during test and if isolation valve is visible.

Montgomery County Response: Yes	
8. Question: Can you supply the worksh	neets mentioned in the bid doc,
Montgomery County Response: See the	e worksheet included in this addendum
	ntenance and testing procedures outlined in the Public Service aintenance program so we can compare them to AWWA M17
Montgomery County Response: See the addendum	e Hydrant Inspection and Maintenance Program included in this
ACKNOWLED	GE RECEIPT OF ADDENDUM # 1:
COMPANY/FIRM NAME AND ADDRESS:	SUBMITTED BY:
	NAME:(print)
	SIGNATURE:
	TITLE:
Zip Code	DATE:
Telephone Number: ()	Email:

5. Question: Can we get a map of all hydrant locations to see how spread out this work is.

6. Question: What are the regular business hours?

Montgomery County Response: 8:00 to 4:30 Monday - Friday

7. Question: Is operating the lead valve part of the scope of work?

Montgomery County Response: Yes. Please call 540-382-5784 for an electronic link to the map.

FIRE HYDRANT MAINTENANCE AND FLOW WORKSHEET

FIRE HYDRANT ID#	NOTES:	
DATE		
CONDITION OF HYDRANT		
GPM		
STATIC PRESSURE		
ISOLATION VALVE CONDITION		
FIRE HYDRANT ID#	NOTES:	
DATE		
CONDITION OF HYDRANT		
GPM		
STATIC PRESSURE		
ISOLATION VALVE CONDITION		
FIRE HYDRANT ID #	NOTES:	
DATE		
CONDITION OF HYDRANT		
GPM		
STATIC PRESSURE		
ISOLATION VALVE CONDITION		

Montgomery County Public Service Authority Hydrant Inspection and Maintenance Program

Hydrant Inspection & Preliminary Maintenanc	e Works	heet (1)	
FH ID:			-
Manufacturer:			
Model:	Castin	g Year:	
	Castill	g rear:	<u> </u>
Inspection:	Yes	No	Obstructions:
Hydrant is clear for 3' radius			
Hydrant is visible			
Hydrant is tagged with PSA tag			
Hydrant is tagged with recall repair tag			7
Hydrant is intact (no cracks, holes, missing bolts, missing caps, etc.)			
Breakaway flange shows no damage			
Hydrant shows signs of use (wrench marks, missing paint, etc.)			
Leaks			1
Map location correct			1
Caps present and in good shape			1
Chains firmly attached and in good shape			-
Hydrant too low		1	inches
Hydrant too high	,		inches
Hydrant leaning			
Preliminary Maintenance			
Clear area / remove debris 3' around fire hydrant			
Threads, nozzles and gaskets:		Militar pagaganan	
Remove all nozzle caps and clean and inspect threads	<u> </u>		
Clean & lube threads using approved food grade lube		····	
Replace all gaskets			
Replace caps, note ease of operation tighten fully and		.,	
back off slightly (prevent removal by hand). Note ease of valve operation			
ubricate hydrant:			
	·		
Use manufacturer's recommendation if possible			
Determine zerk (grease) fitting, plug, or no external lube	point		
Clean zerk fitting or oil cap / plug			
Zerk: Grease through zerk fitting using grease gun till ref	usal or		
showing of grease around zerk fitting		l	
Plug: Remove oil cap / plug, check level & fill if needed			
Jse FDA approved food grade lubricants; Oil Research Inc. 151 Food		St. Committee of the co	Commence of the second

FH ID:		
Hydrant Gate Valve Checklist:	PERSONAL PROPERTY OF THE PERSON OF THE PERSO	
Valve visible and at proper grade		
Screw box top has cover		
Screw box has no cracks, misalignment, etc.		
Hydrant Gate Valve Test:		Mine of the control o
Leaks found by listening with valve key (valve in on position)		
Valve operates properly		
Operating nut is fully open		
Close valve:		
Number of turns (count & list)		
Leaks found by listening with valve key		
Open valve		
Note ease of valve operation (smooth, difficult, uneven, etc.)		
Runoff Checklist:	EM	
Iydrant must be dechlorinated if any circumstances exist that re		
nydrant flow. Contractor will supply proper dechlorinization equal damage which may occur as the result of hydrant flowing. Dechlorinization used	The man is respond	asible tot ally al
2001101 HIZULION USOU		Same of the same o
Proper care must be taken to insure that property damage and in possible. Public safety must be maintained. When necessary, flowablic hazard or property damage, including to residences, build sydrant discharge shall be swept or cleared from roads, streets, a steeps taken to avoid safety concerns / property damage:	w will be diverted via ings, gardens, etc. An	hoses to avoid
tops taken to avoid safety concerns / property damage:		
ross Connections:		

	Fire	Flow Worksheet (3)		
FH ID:	Test Dat	e:	Weather:	Processor Control of the Control of
	Test Tim	ie:	Test By:	
FH Test Proced		700		
Hydrant can be	safely flowed (use hose, de-chlo	r, etc. as needed)	, , , , , , , , , , , , , , , , , , ,	
Photograph hydi	rant & site prior to beginning tes	t procedure		
Gate Valve, Run	off and Cross Connection Work	sheet completed	1774 CHARTIN MIN.	
Check for leaks:				
	Ensure caps are secure, loosen 1	cap to vent air, slowly op	en hydrant	Leaks found?
1	till water is at cap then tighten ca	ap; slowly open hydrant fi	ully check	
	for leaks, slowly close hydrant fi	ul <u>ly.</u>		
Clear hydrant dra				
	With caps secure, open hydrant i			Completed?
	hydrant slowly. Repeat this proc	edure slowly to flush drai	in.	
Residual Hydran	t Static Pressure Procedure:			
14	Attach a pressure gauge (200 or	250 psi) to a proximate h	ydrant, open	
t	he valve slowly, venting air fron	n the hydrant body throug	gh the gauge	
C	cap assembly close the assemb	ly when air is vented and	continue	Completed?
Jo	ppening the valve; once pressure	has stabilized, record pre	ssure below	and the second s
Offset distances	& other considerations for select	tion of residual hydrant:	The state of the s	
Proceedings of the Company of the Co				
	atic Pressure Procedure:			
	At flow hydrant, attach a pressure			Completed?
[(vent air as described above) and	take reading; record press	sure below.	
Flow Procedure:				
	Close the flow hydrant, and attac		2,500 gpm to	Completed?
tl	he second outlet. Aim this caref	ully!	-	<u> </u>
Completely open	flow hydrant, allow flow to stab	ilize, take & record flow	reading below.	
Take and record t	he pressure at the residual locati	ion; record below.		AND AND THE PROPERTY OF THE PR
Closing Procedur	e:			
	lose flow hydrant slowly; avoid			
m	nore than¼ turn from hand tight)	. Remove diffuser & gau	ge. Do not	Completed?
re	eplace caps till vacuum has equa	lized (test by hand over he	ole or	The state of the s
fl	ashlight); do not overtighten.			
	hydrant in the same manner.			and the second s
	s are closed, not seeping or leak	ing, and are ready for serv	vice.	
FH Test Data:				
Static Pressure (ps		Calculated Water Loss (gallons)	
Outlet Discharge (Residual Hydrant ID	.5	
Outlet Discharge ((gpm)	Residual Hydrant Static	Pressure (psi)	
Геst Duration (mi	nutes)	Residual Hydrant Flow		
		(psi)		
Dechlorinization T	Гуре Used:	And the state of t	dilitare programme and the second	

Maintenance Worksheet (4)	
Prior to painting, any rust, loose paint, or excessive build-up of paint shall brush or scraper, as appropriate. Excessive dirt or dust shall be removed painting. The hydrant body shall be painted with Safety Red paint, as shapped a prior of the design of the state	to prepare surface for
unless already painted to designate flow.	
Fire Hydrant Surface Prepared	
Fire Hydrant Painted	
Caps and Bonnet Already Color Coded	
Minor corrections (trimming, brush removal, etc.) performed at time of inspection:	
Steps taken to clear around fire hydrant:	
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Comments:	

Checklists are to be returned to the PSA offices daily. Valves which are difficult to operate, have bent stems or don't open & close fully shall be reported to the PSA offices immediately. Hydrants which are found to be inoperable during inspection must be marked with an "Out of Service" ring (supplied by PSA) installed behind the pumper nozzle cap, and shall be reported to the PSA offices immediately. In this case, the hydrant shall be marked as inoperable on the fire hydrant checklist, and it shall be noted on the checklist that an "Out of Service" ring has been placed upon the hydrant