

**February 17, 2015**

**To: Mayor Bemrich and City Council**

**From: David Fierke, City Manager**

**Subject: 2014 OHV Water Main Extension – Pay Estimate #3 – Sub Final & Change Order #2**



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**ACTION: For vote Monday, February 23, 2015**

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**Brief History**

For the past several years, the Capital Improvement Plans have included funding for extending the water service area to the south and serve the OHV campground. The existing water main at 5<sup>th</sup> Ave South and South 42<sup>nd</sup> Street will be extended to the south to provide service to the OHV Park.

On January 27, 2014, Council approved the contract with MER Engineering for engineering services through the bid letting with additional services to be authorized at a later date. The project will expand the City's water service area to the OHV Park by installing almost two miles of 16" water main. The project will be completed by March 1<sup>st</sup> ahead of the OHV campground opening.

MER Engineering has prepared the plans and specifications for the 2014 OHV Water Main Extension project. On August 11, 2014 Council approved setting bid letting date to receive bids for the project on August 28, 2014 at 3:00 p.m. A public hearing was set to approve the plans and specifications, form of contract, and estimate of costs for September 8, 2014 at 6:00 p.m.

A bid letting was held on August 28, 2014 at 3:00 p.m. and the following responsive bids were received:

<b>Contractor</b>	<b>Base Bid (DIP Water Main)</b>	<b>Bid Alternate (PVC Water Main)</b>
Carstensen Contracting Inc.	\$1,380,570.00	\$1,099,416.50
Keller Excavating Inc.	\$1,345,038.00	\$1,106,068.00
H & W Contracting LLC.	\$1,368,539.00	\$1,165,385.00
Holland Contracting Corp.	\$1,400,665.00	\$1,208,588.00
Nels Pederson Co., Inc	\$1,577,167.00	\$1,276,526.00
J & K	\$1,706,752.00	\$1,382,275.50

The Bid Alternate changed the water main pipe material from Ductile Iron Pipe Class 52 to C900 PVC.

On September 8, 2014, Council approved the plans and specifications, form of contract and estimate of costs for this project, as well as awarding the contract to Carstensen Contracting, Inc. and selects the Bid Alternate in the amount of \$1,099,416.50.

On October 13, 2014, Council approved an amendment to MER Engineering's contract to provide Phase III Project Construction Administration, Staking, Observation, and Final Inspection in the amount not to exceed of \$51,000.

On November 10, 2014, Council approved Change Order #1, which was necessary to replace the PVC with DIP water main, add bends to the water main, as well as remove concrete near 5<sup>th</sup> Ave S to avoid an existing telephone line. The contract price was increased by \$5,409.69 for a new total of \$1,104,826.19.

The Contractor, Carstensen Contracting, Inc, has completed the work specified in the contract documents. On January 12, 2015, Council approved Statement of Substantial Completion and Pay Estimate #2 Sub-Final in the amount of \$519,254.03.

### **Analysis of Issue**

Change Order #2 includes additional 18" storm sewer that was needed and adjustment of project quantities. Change Order #2 decreases the contract amount by \$19,815.29 and brings total contract amount to \$1,085,010.90. Pay Estimate #3 Sub-Final is now due in the amount of \$31,431.42; the City will retain 5% (\$54,250.55) of the contract amount to ensure the site restoration work has been completed, which will take place this spring.

### **Budget Impact**

The project will be funded from the Water Utility Fund.

### **Strategic Plan Impact**

Policy D.4.2: Advanced planning for all infrastructure facilities shall be supported and routinely updated. Facilities benefited by advanced planning shall include, at minimum, schools, health care, residential areas, roads, water, sewer, storm water management, parks, recreation, and greenways.

Policy D.4.1: Recognizing that infrastructure has a powerful influence on growth and development, the availability of infrastructure (along with other factors) should determine where development will occur in the city, rather than the other way around.

### **Impact on Existing Plans**

None.

### **Committee Review / Recommendation**

None.

### **Staff Conclusions / Recommendations**

Staff recommends accept the Statement of Substantial Completion and approve Pay Estimate #3 in the amount of \$31,431.42.

**Alternatives**

None recommended.

**Implementation and Accountability**

The Engineering Department and MER Engineering will be responsible for overseeing this project.

Signed



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Tony Trotter, P.E.  
Project Engineer

Approved



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David Fierke  
City Manager

**MER ENGINEERING, INC.**

**PAY ESTIMATE NO.3 Sub Final**

109 Regency West Court  
Fort Dodge, Iowa 50501

Project: 2014 OHV Water Main Replacement, City Of Fort Dodge  
Contractor: Carstensen Contracting  
Original Contract Amount: \$1,099,416.50  
Pay Period: December 8, 2014-February 16, 2015

MER # 5107

ITEM NO.	DESCRIPTION	BID QUANTITY	UNIT	PRICE BID	UNITS COMPLETED TO DATE	TOTAL EARNED TO DATE	BALANCE TO BE COMPLETED
1.	Bonds, Mobilization & Insurance	1	LS	\$88,000.00	1	LS	\$88,000.00 0%
2.	Pavement Removal and Replacement w/ 8" PCC & 4" HMA incl. Curb	26	SY	\$395.00	26	SY	\$10,270.00 0%
3a	Trenchless Construction 16" Restraint Joint PVC C 905 SDR 18	1,515	LF	\$190.00	1,515	LF	\$287,850.00 0%
4.	Railroad Crossing (Jack & Bore 27" Casing & 16" Carrier)	110	LF	\$607.00	110	LF	\$66,770.00 0%
5a	16" PVC C905 SDR 18 Water Main	10,725	LF	\$43.50	10,725	LF	\$466,537.50 0%
6a	12" PVC C900 SDR 18 Water Main	325	LF	\$37.00	325	LF	\$12,025.00 0%
7a	8" PVC C900 SDR 18 Water Main	22	LF	\$103.00	22	EA	\$2,266.00 0%
8.	16" Gate Valve and Box	4	EA	\$6,930.00	4	EA	\$27,720.00 0%
9.	12" Tapping Valve Assembly	1	EA	\$6,300.00	1	EA	\$6,300.00 0%
10.	8" Gate Valve and Box	1	EA	\$1,680.00	1	EA	\$1,680.00 0%
11.	Fire Hydrant Assembly	6	EA	\$4,750.00	6	EA	\$28,500.00 0%
12.	4" DIP Water Service (Incl Trenchless)	220	LF	\$108.00	220	LF	\$23,760.00 0%
13.	4" Gate Valve and Box	4	EA	\$977.00	4	EA	\$3,908.00 0%
14.	1" Service Tap	1	EA	\$600.00	1	EA	\$600.00 0%
15.	1" K Copper Service Line (incl Trenchless)	100	LF	\$17.00	100	LF	\$1,700.00 0%
16.	Storm Water Pollution Prevention Plan incl Seeding	1	LS	\$25,200.00	1	LS	\$25,200.00 0%
17.	Traffic Control	1	LS	\$23,000.00	1	LS	\$23,000.00 0%
18.	Tracer System Bimetallic	12,650	LF	\$1.00	12,650	LF	\$12,650.00 0%
19.	6" Granular Surface Class A	150	Ton	\$51.00	150	Ton	\$7,650.00 0%
20.	12" Gate Valve and Box	1	EA	\$3,030.00	1	EA	\$3,030.00 0%
						\$1,099,416.50	
<b>Change Order No. 1</b>							
7A.	8" PVC C900 SDR 18	22	LF	\$103.00	22	LF	(\$2,266.00) 0%
7	8" DIP Water Main Class 52	20	LF	\$251.00	20	LF	\$5,020.00 0%
	Item 2-Equipment , Labor	1	LS	\$2,655.69	1	LS	\$2,655.69 0%
	Total						\$5,409.69
<b>Change Order No 2</b>							
1a.	Attached Proposal for additional items			\$9,565.71			\$9,565.71
2	Delete-Pavement Remvl & Replc.	19	SY	\$395.00	19	SY	(\$7,505.00)
3a.	Delete-Trenchless Construction	95	LF	\$190.00	95	LF	(\$18,050.00)
6a.	Delete-12" PVC 18 Water Main	6	LF	\$37.00	6	LF	(\$222.00)
15	1" K Copper Service Line (incl Trenchless)	13	LF	\$17.00	13	LF	\$221.00
19	Delete-6" Granular Surface Class A	75	Ton	\$51.00	75	Ton	(\$3,825.00)
						(\$19,815.29)	
Total completed work							\$1,085,010.90
Total amount earned to date							\$1,085,010.90
Less 5 % retained percentage							\$54,250.55
Total amount due including this estimate							\$1,030,760.36
Less Estimate previously approved							\$999,328.93
Amount Due This Estimate							\$31,431.42
<b>ENGINEER'S AFFIDAVIT:</b>			<b>CONTRACTOR'S AFFIDAVIT:</b>			<b>OWNER:</b>	
I certify that to the best of my knowledge, the above account is a just and true statement of work accomplished and/or material supplied.			I certify that the items as shown herein are just and unpaid and that all work has been performed in accordance with the terms and conditions of the contract documents.				
APPROVED FOR PAYMENT:			FOR: Carstensen Contracting Inc			FOR: City of Fort Dodge	
FOR: Mer Engineering, Inc			BY: <i>Josh Stan</i>			BY:	
BY: <i>Jim Kealmer</i>			DATE: <i>2/17/15</i>			DATE:	
DATE: <i>2/17/15</i>			DATE:			DATE:	

**CHANGE OR EXTRA WORK ORDER FORM**  
**C.O. #2**

Project Description: 2014 OHV Water Main Extension for the City of Fort Dodge, IA

TO: Carstensen Construction Inc.

You are hereby requested to make the following changes from the plans or do the following extra work on your contract dated September 8, 2014

Item - Description of changes to be made or extra work to be done:  
Replace 18" RCP drive culvert for Doolittle Oil and Iowa Central Community College including surface restoration and drive replacement with 6" of rock and 8" PCC.

Item - Reason for ordering change or extra work:  
Existing culvert was found to be broke and crushed.

Final Quantities-Underruns and Overruns.

Settlement for cost of work to be made as follows:

ITEM	QUANTITY	UNIT PRICE	AMOUNT
1a. See Attached Proposal 11/10/14			\$ 9,565.71
2. Delete Pavement Rmvl. & Replc.	19 SY	\$395.00 SY	-\$ 7,505.00
3a. Delete-Trenchless Construction	95 LF	\$190.00 LF	-\$18,050.00
6a. Delete-12" PVC 18 Water Main	6 LF	\$ 37.00 LF	-\$ 222.00
15. 1" K Copper Service Line	13 LF	\$ 17.00 LF	\$ 221.00
19. Delete-6" Granular Class A	75 TON	\$ 51.00 TON	-\$ 3,825.00
		TOTAL	-\$19,815.29

Receipt is acknowledged of this change or extra work order and terms of settlement are hereby approved.

CARSTENSEN CONST., INC.

BY



DATE

2/17/15

MER ENGINEERING, INC.

BY



DATE

2/17/15

CITY OF FORT DODGE, IOWA

BY

DATE

