

October 7, 2014

To: Mayor Bemrich and City Council

From: David Fierke, City Manager

Subject: North Central Ag Park Expansion – Water System Improvements 2011, Phase A: Raw Water Supply – Section 2 Well House Project - Pay Estimate #18 Final & Statement of Final Completion



ACTION: For vote Monday, October 13, 2014

Brief History

In order to accommodate the water needs and wastewater loadings from Cargill and CJ America, the City's water and wastewater infrastructure needs to be expanded. The proposed projects will require extensive design work, construction administration, and financial administration.

Council approved a contract with McClure Engineering on November 14, 2011. The contract included services for 4 phases:

- Phase A - Raw Water Source
- Phase B - Water Treatment Plant
- Phase C – Ag Park Ground Storage and High Service Pumping
- Phase D – Waste Water Treatment Plant

This Phase of the project includes construction of Well No. 20 (Jordan Aquifer) south of the UPRR high bridge, construction of Well No. 21 (Mississippian Aquifer) adjacent to Well No. 8, completion of Well No. 18 near the former Sunkissed Meadows Golf Course, well abandonment for Well Nos. 8, 9, and the Old Cargill Well, and a raw water main from Well 21 to Well 18.

Contracts were awarded by Council on November 5, 2012 to the following companies:

- Phase A, Section 1 – Grosch Irrigation - \$2,467,961.70
- Phase A, Section 2 – C.L. Carroll - \$2,633,178.06
- Phase A, Section 3 – Rasch Construction - \$489,217.50

Change Order #1 for Phase A; Section 2 was necessary to cover IDNR requirements to obtain the construction permit. The cost of Change Order is \$51,500.00 but will not affect the contract amount as it will be deducted from the contingency. Change Order #1 was approved on March 7, 2013.

Change Order #2 was approved on April 22, 2013 and included a modification of the completion dates for the project as follows:

Section 2 Well Houses	Substantially Complete By:
Well 18	June 4, 2013
Well 21	January 3, 2014
Well 20	October 15, 2013
All other work	October 15, 2013
Section 2 Well Houses	Final Completion by May 1, 2014

Change Order #3 was approved on September 9, 2013 and included further modifications of the substantial completion dates (bold and italics below):

Section 2 Well Houses	Substantially Complete By:
Well 18	June 4, 2013
<i>Well 21</i>	<i>February 15, 2014</i>
<i>Well 20</i>	<i>November 15, 2013</i>
<i>All other work</i>	<i>November 15, 2013</i>
Section 2 Well Houses	Final Completion by May 1, 2014

Liquidated damages of \$2,000/day apply to the above completion dates. An early completion incentive for Well #20 at \$2,000/day between November 1, 2013 and November 15, 2013 is being offered (maximum incentive \$30,000).

These substantial completion dates were moved back 30 days due to the need to surge and bale sand from the well and also to acidize the rock formation in the well. These practices increased the production of water from the well, however, it set back the start of the well house construction by 30 days.

On June 23, 2014, Council approved Change Order #4 includes a number of changes. The total amount of Change Order #4 was \$52,154.32 with \$43,500 being deducted from to contingency fund and the remaining \$8,654.32 will increase the contract amount to \$2,641,832.38.

On September 8, 2014, Council approved Change Order #5 increasing the contract amount to \$2,642,132.38, Pay Estimate #17 Sub-Final in the amount of \$114,681.60, and Statement of Completion.

Analysis of Issue

The Contractor, CL Carroll Construction, has completed the work in compliance with the Plans and Specifications and Change Order(s) governing the construction of this work. McClure Engineering has submitted the Statement of Final Completion for your review and approval.

Pay Estimate #18 Final is now due to CL Carroll Construction in the amount of \$32,106.62.

Budget Impact

These services will be paid by Water SRF Loans and will be paid for by Water Utility funds; no funds remain in the contingency 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

This project has been discussed at several council meetings and workshops.

Staff Conclusions / Recommendations

It is our recommendation to accept the Statement of Completion, as well as approve Pay Estimate #18 Final. Staff also recommends approving payment to CL Carroll in the amount of \$32,106.62.

Alternatives

No practical alternatives are suggested to stay on schedule with this project.

Implementation and Accountability

McClure Engineering will be responsible for overseeing this project.

Signed

Approved



Tony Trotter, PE
Project Engineer

David Fierke
City Manager



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September 30, 2014

Mr. Matt Bemrich, Mayor
and City Council
City of Fort Dodge
819 1st Avenue South
Fort Dodge, IA 50501

RE: Water System Improvements 2011, Fort Dodge, Iowa
Phase A: Raw Water Supply, Section 2: Well Houses
Contractor: C.L. Carroll Company, Inc., Des Moines, Iowa
SRF Project No. FS-94-12-DWSRF-025
MEC Project No. 1311016-01

STATEMENT OF FINAL COMPLETION

Dear Mayor and Council:

This is to verify that McClure Engineering Company has reviewed the work performed by C.L. Carroll Company, Inc., of Des Moines, Iowa, on the above referenced project under their contract to the City of Fort Dodge, Iowa dated November 5, 2012. The final cost on the project is \$2,642,132.38.

We find the work to be completed in compliance with the Plans and Specifications and Change Order(s) governing the construction of this Work. We, therefore, recommend that all work be accepted by the City of Fort Dodge, Iowa.

Respectfully submitted,

McCLURE ENGINEERING COMPANY

Michael Washburn
Project Manager, P.E.

ACCEPTED BY: City of Fort Dodge, Iowa

Matt Bemrich, Mayor

Date

cc: Owner (original)
IDNR
Contractor

NORTHWEST IOWA | DES MOINES METRO | EASTERN IOWA | LAKE OZARK, MISSOURI

Progress Estimate - Lump Sum Work

Contractor's Application

For (Contract):		Water System Improvements 2011, Fort Dodge, Iowa, Phase A: Raw Water Supply, Section 2: Well Houses		Application Number: Eighteen (18) FINAL			
Application Period:		8/18/14 - 9/30/14		Application Date: 9/30/2014			
Specification Section No.	Description	Work Completed		Materials Presently Stored (not in C or D)	Total Completed and Stored to Date (C + D + E)	% (F / B)	Balance to Finish (B - F)
		B	C				
		Scheduled Value (\$)	From Previous Application (C+D)	This Period			
1010	General Provisions, Project Meetings, Submittals, Bond	\$ 93,500.06	\$ 93,500.06	\$ -	\$ -	100.0%	\$ -
1430	Testing, Project Close out, O & M Manuals	\$ 25,000.00	\$ 25,000.00	\$ -	\$ -	100.0%	\$ -
2220	Demolition, Excavation, Dewater, Compaction	\$ 93,600.00	\$ 93,600.00	\$ -	\$ -	100.0%	\$ -
2273	Erosion Control	\$ 15,000.00	\$ 15,000.00	\$ -	\$ -	100.0%	\$ -
2517	Paving	\$ 48,000.00	\$ 48,000.00	\$ -	\$ -	100.0%	\$ -
2721	Site Utilities	\$ 156,000.00	\$ 156,000.00	\$ -	\$ -	100.0%	\$ -
2831	Fence	\$ 51,000.00	\$ 51,000.00	\$ -	\$ -	100.0%	\$ -
3000	Concrete, Reinforcing, Precast	\$ 202,000.00	\$ 202,000.00	\$ -	\$ -	100.0%	\$ -
4000	Masonry	\$ 100,000.00	\$ 100,000.00	\$ -	\$ -	100.0%	\$ -
5000	Misc Metals	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -	100.0%	\$ -
7000	Roofing, Gutters, Sealants	\$ 80,000.00	\$ 80,000.00	\$ -	\$ -	100.0%	\$ -
8000	Doors, Hardware	\$ 35,000.00	\$ 35,000.00	\$ -	\$ -	100.0%	\$ -
9000	Painting	\$ 55,000.00	\$ 55,000.00	\$ -	\$ -	100.0%	\$ -
11000	Flow Meters	\$ 16,000.00	\$ 16,000.00	\$ -	\$ -	100.0%	\$ -
15000	Process Piping	\$ 110,000.00	\$ 110,000.00	\$ -	\$ -	100.0%	\$ -
15600	HVAC	\$ 165,000.00	\$ 165,000.00	\$ -	\$ -	100.0%	\$ -
16000	Electrical, wiring, Lighting	\$ 403,078.00	\$ 403,078.00	\$ -	\$ -	100.0%	\$ -
16600	Standby Power Systems	\$ 280,000.00	\$ 280,000.00	\$ -	\$ -	100.0%	\$ -
16900	Controls, SCADA	\$ 575,000.00	\$ 575,000.00	\$ -	\$ -	100.0%	\$ -
	Contingency	\$ 125,000.00	\$ 133,954.32	\$ -	\$ -	107.2%	\$ (8,954.32)
	- Change Order #1 - Contingency Draw	\$ 51,000.00	\$ 51,500.00	\$ -	\$ -		
	- Change Order #2 - Contingency Draw	\$ -	\$ -	\$ -	\$ -		
	- Change Order #3 - Contingency Draw	\$ 30,000.00	\$ 30,000.00	\$ -	\$ -		
	- Change Order #4 - Contingency Draw / Contract Addition	\$ 52,154.32	\$ 52,154.32	\$ -	\$ -		
	- Change Order #5 - Contract Addition	\$ 300.00	\$ 300.00	\$ -	\$ -		
	Sub - Totals	\$ 2,633,178.06	\$ 2,642,132.38	\$ -	\$ -		
	Change Orders						
	- Change Order #1 - Changes to Original Plans	\$ -	\$ -	\$ -	\$ -		
	- Change Order #2 - Changes to Completion Dates	\$ -	\$ -	\$ -	\$ -		
	- Change Order #3 - Well #20 Early Completion Incentive	\$ -	\$ -	\$ -	\$ -		
	- Change Order #4 - Project Changes / Modifications	\$ 8,654.32	\$ 8,654.32	\$ -	\$ -		
	- Change Order #5 - Project Changes / Modifications	\$ 300.00	\$ 300.00	\$ -	\$ -		
	Grand Totals	\$ 2,642,132.38	\$ 2,642,132.38	\$ -	\$ -	100.0%	\$ -

Stored Material Summary

Contractor's Application

For (Contract):		Water System Improvements 2011, Fort Dodge, Iowa, Phase A - Raw Water Supply, Section 2: Well Houses										Application Number:		Eighteen (18) FINAL	
Application Period:		8/18/14 - 9/30/14										Application Date:		9/30/2014	
Bid Item No.	Supplier Invoice No.	Submittal No. (with Specification Section No.)	Storage Location	Description of Materials or Equipment Stored	D		E	F		G					
					Date Placed into Storage (Month/Year)	Amount Stored Previously (\$)		Amount Stored this Month (\$)	Incorporated in Work as of Date (Month/Year)		Amount (\$)	Materials Remaining in Storage (\$ (D + E - F))			
	3222229	001-16100	Holstein, IA	Wire	3/2013	\$49,171.63	\$49,171.63	12/2013	\$49,171.63						
	S7121232.001	001-16100	Holstein, IA	Conduit	3/2013	\$957.14	\$957.14	11/2013	\$957.14						
	S7371597	001-16100	Holstein, IA	Conduit	3/2013	\$1,914.28	\$1,914.28	11/2013	\$1,914.28						
	7000133661	001-16100	Holstein, IA	Conduit	3/2013	\$1,487.87	\$1,487.87	11/2013	\$1,487.87						
	6149144	004-15100	Well 18	Antenna	3/2013	\$77.63	\$77.63	11/2013	\$77.63						
	E8466001	009-16612	Minn MN	Process Piping	3/2013	\$4,000.00	\$4,000.00	12/2013	\$4,000.00						
	25449 S	011-16900	St Paul MN	Generator	4/2013	\$32,718.00	\$32,718.00	12/2013	\$32,718.00						
	Walsh # 3	008-08000	Well 18	Controls	4/2013	\$50,000.00	\$50,000.00	12/2013	\$50,000.00						
	165545	019-15000	Gadbury	Doors & Hardware	5/2013	\$7,982.00	\$7,982.00	12/2013	\$7,982.00						
	86950	021-04270	Knutson	Greenheck Fans	5/2013	\$28,446.00	\$28,446.00	12/2013	\$28,446.00						
	Capital One	019-15000	Gadbury	Glass Block	5/2013	\$2,827.00	\$2,827.00	12/2013	\$2,827.00						
	148097	019-15000	Gadbury	Exhaust Piping	6/2013	\$382.23	\$382.23	11/2013	\$382.23						
	148304	019-15000	Gadbury	Exhaust Piping	6/2013	\$672.96	\$672.96	12/2013	\$672.96						
	21241	019-15000	Gadbury	Exhaust Piping	6/2013	\$86.68	\$86.68	11/2013	\$86.68						
	25530	001-16100	Holstein, IA	Heaters	6/2013	\$14,955.00	\$14,955.00	12/2013	\$14,955.00						
				Scada	7/2013	\$109,500.00	\$109,500.00	11/2013	\$109,500.00						
Totals										\$305,178.42	\$305,178.42		\$305,178.42		

PARTIAL PAY ESTIMATE NUMBER #18 (FINAL)

PARTIAL PAY ESTIMATES PAID-TO-DATE
WATER SYSTEM IMPROVEMENTS 2011, FORT DODGE, IOWA
PHASE A: RAW WATER SUPPLY
SECTION 2: WELL HOUSES

APPLICATION PERIOD: 8/18/14 - 9/30/14

CONTRACTOR: C.L. Carroll Company, Inc.

ORIGINAL CONTRACT AMOUNT: \$ 2,633,178.06

CHANGE ORDERS:	NO.	DATE	AMOUNT
	1	3/7/2013	\$ -
	2	4/22/2013	\$ -
	3	9/3/2013	\$ -
	4	6/9/2014	\$ 8,654.32
	5	8/18/2014	\$ 300.00

REVISED CONTRACT AMOUNT: \$ 2,642,132.38

PAY ESTIMATES:

DATE	PAY ESTIMATE NO.	AMOUNT
9/27/2013	1 - 10	\$ 1,583,506.25
10/25/2013	11	\$ 331,864.61
11/25/2013	12	\$ 297,540.00
12/26/2013	13	\$ 104,083.86
1/26/2014	14	\$ 80,832.39
2/24/2014	15	\$ 42,041.15
6/2/2014	16	\$ 55,475.90
9/8/2014	17 (Sub-Final)	\$ 114,681.60

TOTAL ESTIMATES PAID TO DATE: \$ 2,610,025.76

9/30/2014 18 (Final) \$ 32,106.62

TOTAL CONSTRUCTION COST: \$ 2,642,132.38