



City of Grand Island

Tuesday, September 10, 2019

Council Session

Item G-6

#2019-271 - Approving Certificate of Final Completion for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1

Staff Contact: John Collins, P.E. - Public Works Director

Council Agenda Memo

From: Keith Kurz PE, Assistant Public Works Director

Meeting: September 10, 2019

Subject: Approving Certificate of Final Completion for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1

Presenter(s): John Collins PE, Public Works Director

Background

The Diamond Engineering Company of Grand Island, Nebraska was awarded a \$2,306,455.27 contract on March 28, 2017, via Resolution No. 2017-88, for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1.

On October 10, 2017, via Resolution No. 2017-276, City Council approved Change Order No. 1 in the amount of \$97,640.79, which allowed for replacement of Manhole No. 75 and extended the completion date from March 15, 2018 to April 14, 2018, resulting in a revised contract amount of \$2,404,096.06.

On April 10, 2018, via Resolution No. 2018-99, City Council approved Change Order No. 2 at no cost, which allowed for a time extension from April 14, 2018 to June 30, 2018.

On July 10, 2018, via Resolution No. 2018-202, City Council approved Change Order No. 3 at no cost, which allowed for a time extension from June 30, 2018 to August 31, 2018.

On January 8, 2019, via Resolution No. 2019-21, City Council approved Changed Order No. 4 in the amount of \$29,657.48, which allowed for quantities to be rectified, resulting in a revised contract amount of \$2,433,753.54.

On February 26, 2019, via Resolution No. 2019-76, City Council approved Change Order No. 5 in the amount of \$2,675.00, which addressed safety issues, liquidated damages, and an update to the completion date from August 31, 2018 to April 30, 2019.

Lift Station No. 20 pumped an average of 220,000 gallons per day. To accommodate anticipated growth to handle a daily flow rate of over 1 million gallons a day, upgrades to this lift station were necessary. The existing force main from Lift Station No. 20 was also in need of replacement and or repair due to poor pipe condition. The force main experienced multiple breaks in recent years.

The project was recognized as reaching substantial completion on November 1, 2018.

Elimination of Lift Station No. 14 and abandonment of the force main has been completed.

Discussion

The project was completed in accordance with the terms, conditions, and stipulations of the contract, plans and specifications. Construction was completed for a total cost of \$2,436,428.55. Additional project costs are shown below.

ADDITIONAL COSTS

Grand Island Public Works- Engineering Services	\$ 1,028.66
Olsson Associates, Inc.- Engineering Services	\$ 308,339.78
Black & Veatch- Engineering Services	\$ 16,475.01
Grand Island Independent- Advertising	\$ 271.92
Titan Machinery- Easement Acquisition	\$ 3,240.00
4.0 Investments- Land Acquisition	\$ 150,857.08
Sherwin Williams- Epoxy Coating	\$ 157.88
	\$ 480,370.33

Total project cost is \$2,916,798.88.

Alternatives

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

Recommendation

City Administration recommends that the Council approve the Certificate of Final Completion for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1.

Sample Motion

Move to approve the Certificate of Final Completion.

ENGINEER'S CERTIFICATE OF FINAL COMPLETION

Lift Station No. 20 Upgrade and Force Main Rehabilitation &
Lift Station No. 14 Abandonment; Project No. 2017-S-1
CITY OF GRAND ISLAND, NEBRASKA
September 10, 2019

TO THE MEMBERS OF THE COUNCIL
CITY OF GRAND ISLAND
GRAND ISLAND, NEBRASKA

This is to certify that Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1 has been fully completed by The Diamond Engineering Company of Grand Island, Nebraska under the contract dated March 29, 2019. The work has been completed in accordance with the terms, conditions, and stipulations of said contract and complies with the contract, the plans and specifications. The work is hereby accepted for the City of Grand Island, Nebraska, by me as Public Works Director in accordance with the provisions of Section 16-650 R.R.S., 1943.

Item No.	Description	Total Quantity	Unit	Unit Price	Total Cost
Base Bid Lift Station No. 20-					
1	Mobilization/ Demobilization	1.00	LS	\$ 44,787.16	\$ 44,787.16
2	16-inch Force Main, PVC	1,263.00	LF	\$ 52.27	\$ 66,017.01
3	Remove and Replace 6" Concrete Pavement	1,074.00	SY	\$ 56.29	\$ 60,455.46
4	36-inch Gravity Sewer Line	197.00	LF	\$ 214.98	\$ 42,351.06
5	10-inch Gravity Sewer Line	10.00	LF	\$ 71.66	\$ 716.60
6	Trenchless Crossing with 28" x 0.438" W.T. Steel Casing	178.00	LF	\$ 455.22	\$ 81,029.16
7	6 Foot Diameter Manhole- Fiberglass	2.00	EA	\$ 40,569.14	\$ 81,138.28
8	4 Foot Diameter Manhole	2.00	EA	\$ 5,203.34	\$ 10,406.68
9	Air Release Structure	2.00	EA	\$ 8,395.65	\$ 16,791.30
10	D.I. Fittings	2,890.00	LB	\$ 6.60	\$ 19,074.00
11	Connection to Existing Sewer (Gravity and Force Main)	2.00	EA	\$ 4,293.47	\$ 8,586.94
12	Build Lift Station No. 20	1.00	LS	\$ 1,043,442.17	\$ 1,043,442.17
13	Rehab Existing Wet Well	1.00	LS	\$ 9,351.43	\$ 9,351.43
14	1-inch Water Service Connection	2.00	EA	\$ 1,141.29	\$ 2,282.58
15	1-inch Water Service Curb Stop w/ Box	2.00	EA	\$ 539.27	\$ 1,078.54
16	1-inch Water Service Tubing (Type K Cu.)	217.00	LF	\$ 29.04	\$ 6,301.68
17	Build Electrical / Control Building	1.00	LS	\$ 232,251.30	\$ 232,251.30
18	Stand-By Generator	1.00	LS	\$ 40,639.45	\$ 40,639.45
19	Tracer Wire Test Box	4.00	EA	\$ 513.83	\$ 2,055.32
20	Dewatering	1.00	LS	\$ 321,048.38	\$ 321,048.38
21	Lift Station No. 20 Abandonment	1.00	LS	\$ 48,911.35	\$ 48,911.35
22	Abandon Existing Manhole	2.00	EA	\$ 2,815.19	\$ 5,630.38
23	Remove Existing Sanitary Sewer Manhole	1.00	EA	\$ 3,581.36	\$ 3,581.36
24	Abandon 12-inch Force Main (Grout Fill)	1,263.00	LF	\$ 13.91	\$ 17,568.33
25	Grind Curb	36.00	LF	\$ 24.71	\$ 889.56
26	Earthwork	1.00	LS	\$ 18,377.18	\$ 18,377.18
27	Place 4-inch Concrete Work	62.00	SY	\$ 46.22	\$ 2,865.64
28	Crushed Rock Surfacing	91.47	TN	\$ 70.92	\$ 6,487.05
29	Gravel Surfacing	4.00	TN	\$ 31.10	\$ 124.40

30	Place 6 Foot Chain Link Fence	292.00	LF	\$ 62.27	\$ 18,182.84
31	Place 12 Foot Wide 6 Foot Chain Link Fence Gate	2.00	EA	\$ 1,050.00	\$ 2,100.00
32	Place 4 Foot Wide 6 Foot China Link Fence Gate	1.00	EA	\$ 630.00	\$ 630.00
33	Bollards	18.00	EA	\$ 378.21	\$ 6,807.78
34	Seeding (Type 1)	0.34	AC	\$ 1,997.05	\$ 679.00
35	Seeding (Type 2)	0.38	AC	\$ 1,997.05	\$ 758.88
36	Erosion Control	1.00	LS	\$ 5,515.20	\$ 5,515.20
Total Base Bid=					\$ 2,228,913.45

Change Order No. 1-					
CO1-1	Manhole 75 Replacement	1.06	LS	\$ 97,610.79	\$ 103,928.75
Total Change Order No. 1=					\$ 103,928.75

Change Order No. 5-					
CO5-1	Remove Bollard and Install Safety Chain	1.00	LS	\$ 1,675.00	\$ 1,675.00
CO5-2	Raise JIB Crane	1.00	LS	\$ 11,000.00	\$ 11,000.00
CO5-3	Liquidated Damages (10/1/2018 through 12/21/2018)	1.00	LS	\$ (10,000.00)	\$ (10,000.00)
Total Change Order No. 5=					\$ 2,675.00

Total Lift Station No. 20=					\$ 2,335,517.19
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Base Bid Lift Station No. 14-					
1	Mobilization/ Demobilization	1.00	LS	\$ 9,300.57	\$ 9,300.57
2	12-inch Gravity Sewer Line	20.00	LF	\$ 68.43	\$ 1,368.60
3	10-inch Gravity Sewer Line	12.00	LF	\$ 156.70	\$ 1,880.40
4	8-inch Gravity Sewer Line	51.00	LF	\$ 45.58	\$ 2,324.58
5	4 Foot Diameter Manhole- Type 1	1.00	EA	\$ 10,171.37	\$ 10,171.37
6	Remove Existing 12-inch Gravity Sewer Line	64.00	LF	\$ 90.26	\$ 5,776.64
7	Remove Existing 10-inch Gravity Sewer Line	12.00	LF	\$ 187.57	\$ 2,250.84
8	Remove Existing 8-inch Gravity Sewer Line	7.00	LF	\$ 72.12	\$ 504.84
9	Connection to Existing Sewer	2.00	EA	\$ 1,070.58	\$ 2,141.16
10	Dewatering	1.00	LS	\$ 16,181.98	\$ 16,181.98
11	Lift Station No. 14 Abandonment	1.00	LS	\$ 16,530.03	\$ 16,530.03
12	Remove Existing Sanitary Sewer Manhole	1.00	EA	\$ 5,617.10	\$ 5,617.10
13	Remove Concrete Pavement	217.90	SY	\$ 20.34	\$ 4,432.09
14	Remove Concrete Walk	23.60	SY	\$ 20.34	\$ 480.02
15	Place 6-inch Concrete Pavement	217.90	SY	\$ 60.49	\$ 13,180.77
16	Place 4-inch Concrete Walk	23.60	SY	\$ 64.09	\$ 1,512.52
17	Remove and Reset Existing Wood Sign	1.00	LS	\$ 735.32	\$ 735.32
18	Seeding (Type 1)	0.00	AC	\$ 2,051.29	\$ -

19	Traffic Control	1.00	LS	\$	5,343.55	\$	5,343.55
20	Erosion Control	1.00	LS	\$	1,178.97	\$	1,178.97
Total Lift Station No. 14=						\$	100,911.36

Grand Total Lift Station No. 20 & No. 14= \$ 2,436,428.55

Additional Costs:

Grand Island Public Works- Engineering Services	\$	1,028.66
Olsson Associates, Inc.- Engineering Services	\$	308,339.78
Black & Veatch- Engineering Services	\$	16,475.01
Grand Island Independent- Advertising	\$	271.92
Titan Machinery- Easement Acquisition	\$	3,240.00
4.0 Investments- Land Acquisition	\$	150,857.08
Sherwin Williams- Epoxy Coating	\$	157.88
	\$	480,370.33

Total Project Cost=	\$2,916,798.88
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I hereby recommend that the Engineer's Certificate of Final Completion for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1 be approved.

John Collins – City Engineer/Public Works Director

Roger G. Steele – Mayor

RESOLUTION 2019-271

WHEREAS, the City Engineering/Public Works Director for the City of Grand Island issued a Certificate of Final Completion for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1 certifying that The Diamond Engineering Company of Grand Island, Nebraska, under contract, has completed such project for the total construction amount of \$2,436,428.55; and

WHEREAS, the City Engineer/Public Works Director recommends the acceptance of the project; and

WHEREAS, additional project costs equate to \$480,370.33, as shown

ADDITIONAL COSTS

Grand Island Public Works- Engineering Services	\$ 1,028.66
Olsson Associates, Inc.- Engineering Services	\$ 308,339.78
Black & Veatch- Engineering Services	\$ 16,475.01
Grand Island Independent- Advertising	\$ 271.92
Titan Machinery- Easement Acquisition	\$ 3,240.00
4.0 Investments- Land Acquisition	\$ 150,857.08
Sherwin Williams- Epoxy Coating	\$ 157.88
	\$ 480,370.33

WHEREAS, the Mayor concurs with the recommendation of the City Engineer/Public Works Director.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the Certificate of Final Completion for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1, in the amount of \$2,916,798.88 is hereby confirmed.

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Adopted by the City Council of the City of Grand Island, Nebraska, September 10, 2019.

Roger G. Steele, Mayor

Attest:

RaNae Edwards, City Clerk

Approved as to Form	☐ _____
September 6, 2019	☐ City Attorney