

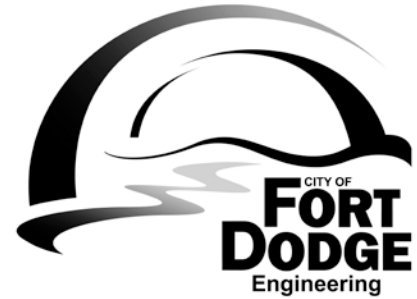
January 19, 2015

To: Mayor Bemrich and City Council

From: David Fierke, City Manager

**Subject: East Region Public Improvements
Phase 1B**

Approve Change Order #5 & Pay Estimate #5 Sub-final



ACTION: For vote Monday, January 26, 2015

Brief History

On May 14th, 2012, City Council passed a resolution accepting the method of selection to choose an Engineering Firm to perform preliminary design on the East Region Storm Sewer Project – Phases 1-3. The Engineering Department solicited RFQ's/RFP's from 7 Iowa firms and received 4 submittals from Bolton & Menk, HR Green, McClure, and Snyder & Associates. The qualifications for each firm were scored by a selection committee and based on their recommendation, City Council directed staff to prepare a contract with Snyder & Associates, which was approved on June 25th, 2012. The original contract includes preliminary engineering, design, administrative work necessary to seek funding and determine scope of the project, developing 30% plans, and communication with the public and neighborhood businesses.

Amendment #1 was the first of two (2) planned amendments to Snyder & Associates' original contract. Amendment #1 bridges the gap between preliminary concepts and bidding the projects, generally including final design and plans, right-of-way services (upon written authorization from City), survey, funding applications, and bidding services.

Amendment #2 to the original contract dated July 23, 2012 was approved by Council on June 10, 2013. The original contract and Amendments 1 and 2 encompass the following work:

- Preliminary Design & Plans for Phases 1, 2, and 3.
- Final Design and Plans for Phases 1 and 2.
- Bid Letting Administration for Phases 1 and 2.
- Environmental Services.
- Construction Administration & Observation for Phases 1 and 2.

The following is a description of each Phase (1 – 4) as described at the Council Workshop on May 20, 2013:

- Phase 1 – Roadway, storm sewers, storm water detention, and pump station improvements near 1st Ave. S. & S. 23rd St.
- Phase 2 – Roadway and storm sewer improvements along 1st Ave. S. between Veterans bridge and S. 27th St. including work on S. 27th St.

- Phase 3 – Roadway and storm sewer improvements along 1st Ave. S. between S. 27th St. and east of S. 29th St. and along S. 29th St. from 1st Ave. S. to 8th Ave. S. Also includes detention basin and pump station at 8th Ave. S. and S. 29th St.
- Roadway and storm sewer improvements along S. 25th St. from south of 1st Ave. S. to 7th Ave. S. to Phase 3 detention basin.

At the September 9th, 2013 workshop, Wade Greiman with Snyder & Associates updated the Phase 1 project to Council. It was explained that the project would further be broken down to include two bids; a Phase 1 and Phase 1B. The breakdown was necessary to coordinate construction activities at Kemna Auto and Phase 1 of the East Region Project.

On October 3, 2013, at 3:00 pm bids were received for the Phase 1 Project. Four bid proposals were received. Council approved a contract with JB Holland in the amount of \$1,502,282.93 on October 14th, 2013.

On June 23, 2014 Council set a Public Hearing date of July 14, 2014 and a bid letting date of July 8, 2014. Engineer's estimate for the Phase 1B construction is \$450,000. Phase 1B includes storm water sewer and paving on 1st Ave South, south of Kemna and storm water sewer between 23rd Street and 25th Street north of Kemna's property.

On July 8, 2014 at 3:00 pm one bid was received for the project:

Rasch Construction, Fort Dodge, Iowa	\$621,804.00
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Council awarded a contract to Rasch Construction on July 14, 2014.

In order to install the storm water drainage pipes without damaging existing light poles, the contractor had to temporarily remove the light poles. New poles will be installed during a later phase of this Project and is not included in this change order. Change Order #1 resulted in an additional \$2,040.00 to the contract and was approved by council on September 22, 2014.

Due to poor soil conditions, the Contractor replaced the base for the storm sewer pipe. Additionally, a right turn lane was added at the intersection of 1st Ave S and S 23rd St and the paving of the north slip street was added to Phase 1B, rather than Phase 1. Change Order #2, approved by Council on October 27, 2014, resulted in an increase of \$69,874.43 to the contract and brings the total project costs to \$693,718.43.

Due to S 23rd St, north of 1st Ave S, being damaged by the construction for the East Region Project and new Kemna building, the City and Jensen Builders have agreed to share the costs in repairing the privately owned road. Change Order #3, approved by Council on December 8, 2014, resulted in an increase of \$31,640.93 to the contract and brings the total project costs to \$725,359.36.

The storm sewer intakes were moved due to a conflict with an existing utility duct bank on the west side of N 25th Street. In addition, to avoid damage to the existing duct bank, the storm sewer pipes were filled with a flowable mortar in lieu of removal. Leaking sand seams in the basin were discovered to be causing erosion. Terracon, a

Geotechnical Engineering firm, recommended installation of 6" subdrain surrounded by porous backfill and a mostly impervious clay material on the top. On December 22, 2014, Council approved Change Order #4 which included the items listed above, increasing the contract amount by \$47,848.01 and brought the total project costs to \$773,207.37.

Analysis of Issue

Because of the cold temperatures on 12/9/2014 and 12/10/2014, the pavement mix design and protection of the slab needed to be changed for the paving on S 25th St between 1st Ave S and 2nd Ave N. 78 cubic yards of concrete was changed to an M-4 mix design with hot water and protected with blankets. Change Order #5 increases the contract amount by \$2,926.00 and brings the total project costs to \$776,133.37.

Pay Estimate #5 Sub-Final is due to Rasch Construction in the amount of \$33,925.20.

Budget Impact

Funding for this project will include LOST, Stormwater Utility GO Bond, a federal transportation grant, TIF, Iowa Clean Air Attainment Program, Traffic Safety Improvement Program, Water Quality related loans or grants, and others. It is the intention to complete the project within the budget provided. Budget is highly dependent on grant success.

Table 1. Capital Improvement Plan Excerpt – East Region Storm Sewer, Phases 1-3

Funding Source	Totals	FISCAL YEAR				
		2012	2013	2014	2015	2016
LOST	\$ 2,500,000				\$ 2,000,000	\$ 500,000
GO Bonds	\$ -					
RUT	\$ -					
Federal	\$ 1,500,000				\$ 500,000	\$ 1,000,000
Sewer Utility	\$ -					
Water Utility	\$ -					
Stormwater Utility	\$ 2,850,000		\$ 1,450,000	\$ 1,400,000		
Other	\$ 2,500,000			\$ 1,050,000	\$ 450,000	\$ 1,000,000
TOTAL	\$ 9,350,000	\$ -	\$ 1,450,000	\$ 2,450,000	\$ 2,950,000	\$ 2,500,000

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 C.3.5: Pedestrian-oriented streetscape improvements including, but not limited to, sidewalks, street trees, landscaping, street lights, street furniture, trash receptacles, and signage shall be made to create and maintain an environment attractive to investment.

Impact on Existing Plans

Change Order #5 has no impact on existing plans.

Staff Conclusions / Recommendations

It is Staff's recommendation to approve Change Order #5 in the amount of \$2,926.00 and Pay Estimate #5 Sub-Final in the amount of \$33,925.20.

Alternatives

None.

Implementation and Accountability

The Snyder & Associates and the Engineering Department will be responsible for this project.

Signed



Tony Trotter, P.E.
Project Engineer

Approved



David Fierke
City Manager

CHANGE ORDER NO. 5

OWNER: City of Fort Dodge

PROJECT: East Region Public Improvements - Phase 1B
PROJECT #: 112.0558

To: Rasch Construction, Inc.
Contractor
1828 Johnson Ave
Address
Fort Dodge, IA 50501
City, State, Zip

You are directed to make the following changes in this contract:

1. Description of change to be made:

7.13 Add Item, PCC Cold Weather Protection, 1 LS @ \$2,926.00

2. Reason for Change:

7.13 Because of the cold air temperatures on 12/9/14 and 12/10/14, the PCC mix design and protection of the slab needed to be changed for the paving on South 25th Street between 1st Ave South and 2nd Ave North. 78 CY of concrete was changed to an M-4 mix design with hot water. This resulted in an increased price of \$29.90/CY. The poured slab was also protected with blankets @ \$1.00/SY for 328.50 SY. Final price includes 10% markup to the prime.

No additional working days added to the contract with this change order.

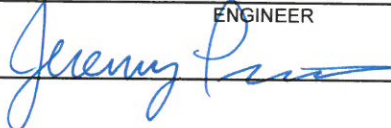
3. Settlement for the cost of making the change shall be as follows:

Item No.	Item Description	Quantity	Unit	Unit Price	Total Price
7.13	PCC Cold Weather Protection	1	LS	\$ 2,926.00	\$ 2,926.00
				TOTAL	\$ 2,926.00


4. This change order will result in a net change in the contract completion time of 0 additional working days and a net increase in the cost of the project of \$2,926.00, divided as follows:

	Contract Amount	Contract Working Days
Approved funds and contract completion date as per (Engineer's Estimate, Contract or last approved C.O.)	\$ 773,207.37	40
Change due to this C.O. (+ or -)	\$ 2,926.00	0 Days
Totals including this C.O.:	\$ 776,133.37	40

The change described herein is understood, and the terms of settlement are hereby agreed to:

Snyder & Associates, Inc.
ENGINEER
By 

DATE: 1/16/2015

Rasch Construction, Inc.
CONTRACTOR
By 

DATE: 1/16/2015

City of Fort Dodge, Iowa
OWNER
By _____

DATE: _____

APPLICATION FOR PARTIAL PAYMENT NO. 5

PROJECT: East Region Public Improvements - Phase 1B
OWNER: City of Fort Dodge
CONTRACTOR: Rasch Construction, Inc.
ADDRESS: 1828 Johnson Ave
Fort Dodge, IA 50501
DATE: January 26, 2015

S&A PROJECT NO.: 112.0558

PAYMENT PERIOD: 12/13/2014 thru 1/19/2015

1. CONTRACT SUMMARY:

Original Contract Amount: \$ 621,804.00
Net Change by Change Order: \$ 154,329.37
Contract Amount to Date: \$ 776,133.37

CONTRACT PERIOD:

Original Contract Date: June 23, 2014
Original Contract Period: 40 Working Days

2. WORK SUMMARY:

Total Work Performed to Date: \$ 761,815.44
Retainage: \$ 10,000.00
Total Earned Less Retainage: \$ 751,815.44
Less Previous Applications for Payment: \$ 717,890.24
AMOUNT DUE THIS APPLICATION: \$ 33,925.20

3. CONTRACTOR'S CERTIFICATION:

The undersigned CONTRACTOR certifies that:

(1) all previous progress payments received from OWNER on account of Work done under the contract referred to above have been applied to discharge in full all obligations of CONTRACTOR incurred in connection with the Work covered by prior Applications for Payment; and

(2) title to all materials and equipment incorporated in said Work or otherwise listed in or covered by the application for Payment are free and clear of all liens, claims, security interests, and encumbrances

Rasch Construction, Inc.

CONTRACTOR

By  DATE: 1/16/2015

4. ENGINEER'S APPROVAL:

Payment of the above AMOUNT DUE THIS APPLICATION is recommended:

Snyder & Associates, Inc.

ENGINEER

By  DATE: 1/16/2015

5. OWNER'S APPROVAL

City of Fort Dodge

OWNER

By _____ DATE: _____

6. DETAILED ESTIMATE OF WORK COMPLETED:

ITEM NO	DESCRIPTION	ORIGINAL CONTRACT QUANTITIES				COMPLETED WORK		
		QUANTITY	UNIT	UNIT COST	COST Total	QUANTITY	CO #	COST TOTAL
GENERAL PROVISIONS								
1.01	Mobilization	1	LS	\$60,500.00	\$ 60,500.00	1.00		\$ 60,500.00
EARTHWORK								
2.01	Topsoil Strip, Salvage and Spread	200	CY	\$28.00	\$ 5,600.00	200		\$ 5,600.00
2.02	Excavation, Class 10, Roadway	950	CY	\$15.00	\$ 14,250.00	1,270	2	\$ 19,050.00
2.03	Subgrade Preparation, 12"	2,237	SY	\$3.00	\$ 6,711.00	2,492	2	\$ 7,476.00
2.04	Modified Subbase, 8"	2,237	SY	\$9.00	\$ 20,133.00	2,492	2	\$ 22,428.00
SEWERS AND DRAINS								
4.01	Storm Sewer, Trenched, Class 3 RCP, 18"	85	LF	\$70.00	\$ 5,950.00	85		\$ 5,950.00
4.02	Storm Sewer, Trenched, Class 3 RCP, 24"	35	LF	\$82.00	\$ 2,870.00	51	4	\$ 4,182.00
4.03	Storm Sewer, Trenched, Class 3 RCP, 36"	83	LF	\$212.00	\$ 17,596.00	83		\$ 17,596.00
4.04	Storm Sewer, Trenched, Class 3 RCP, 42"	607	LF	\$125.00	\$ 75,875.00	607		\$ 75,875.00
4.05	Storm Sewer, Trenched, Class 3 RCP, 54"	85	LF	\$260.00	\$ 22,100.00	85		\$ 22,100.00
4.06	Storm Sewer, Trenched, Class 3 RCP, 60"	268	LF	\$294.00	\$ 78,792.00	268		\$ 78,792.00
4.07	Storm Sewer, Trenched, Class 3 RCAP, 36"x23"	43	LF	\$215.00	\$ 9,245.00	48	4	\$ 10,320.00
4.08	Removal of Storm Sewer, Less than or equal to 36"	366	LF	\$25.00	\$ 9,150.00	281	4	\$ 7,025.00
4.09	Subdrain, Type 1, Case C, PVC, 6"	629	LF	\$12.00	\$ 7,548.00	250		\$ 3,000.00
4.10	Subdrain Cleanout, Type A-1, 6"	4	EACH	\$400.00	\$ 1,600.00	2		\$ 800.00
4.11	Subdrain Outlets and Connections, PVC, 6"	4	EACH	\$150.00	\$ 600.00	2		\$ 300.00
WATER MAIN AND APPURTENANCES								
5.01	Relocate Fire Hydrant	1	EACH	\$6,000.00	\$ 6,000.00	1		\$ 6,000.00
STRUCTURES FOR SANITARY AND STORM								
6.01	Manhole, Type SW-401	3	EACH	\$3,600.00	\$ 10,800.00	3.0		\$ 10,800.00
6.02	Manhole, Type SW-404	1	EACH	\$15,000.00	\$ 15,000.00	1.0		\$ 15,000.00
6.03	Intake, Type SW-501	2	EACH	\$3,100.00	\$ 6,200.00	2.0		\$ 6,200.00
6.04	Intake, Type SW-505	3	EACH	\$4,800.00	\$ 14,400.00	3.0		\$ 14,400.00
6.05	Intake, Type SW-506, SPECIAL	1	EACH	\$9,800.00	\$ 9,800.00	1.0		\$ 9,800.00
6.06	Connection to Existing Pipe	2	EACH	\$500.00	\$ 1,000.00	3.0	4	\$ 1,500.00
6.07	Removal of Existing Structures	8	EACH	\$500.00	\$ 4,000.00	8.0		\$ 4,000.00
STREETS AND RELATED WORK								
7.01	Standard/Slip-Form PCC Pavement, Class C, 8"	2,229	SY	\$65.00	\$ 144,885.00	2337.2	2	\$ 151,918.00
7.02	PCC Pavement Samples and Testing	1	LS	\$500.00	\$ 500.00	1.0		\$ 500.00
7.03	Removal of Sidewalk	27	SY	\$6.00	\$ 162.00	27		\$ 162.00
7.04	Removal of Pavement	2210	SY	\$6.00	\$ 13,260.00	2326	2	\$ 13,956.00
7.05	Sidewalk, PCC, 5"	98	SY	\$65.00	\$ 6,370.00	139.1		\$ 9,041.50
7.06	Sidewalk PCC, 6"	13	SY	\$75.00	\$ 975.00	17.1		\$ 1,282.50
7.07	Detectable Warning	24	SF	\$50.00	\$ 1,200.00	30		\$ 1,500.00
7.08	HMA Overlay	37	TN	\$136.00	\$ 5,032.00	79.6		\$ 10,825.60
7.09	Concrete Washout	2	EACH	\$1,000.00	\$ 2,000.00	0		\$ -
TRAFFIC CONTROL								
8.01	Traffic Control	1	LS	\$15,000.00	\$ 15,000.00	1.0		\$ 15,000.00
8.02	Pavement Markings, Waterborne	1	LS	\$4,000.00	\$ 4,000.00	1.0		\$ 4,000.00
SITE WORK AND LANDSCAPING								
9.01	Seeding and Fertilizing, Type 1	0.25	AC	\$20,000.00	\$ 5,000.00	0.2		\$ 4,000.00
9.02	Storm Water Pollution Prevention Plan, Management	1	LS	\$2,000.00	\$ 2,000.00	0.9		\$ 1,800.00
9.03	Storm Water Pollution Prevention Plan, Inspection	16	EACH	\$125.00	\$ 2,000.00	17		\$ 2,125.00
9.04	Filter Sock, 8" Diameter, Install and Remove	600	LF	\$5.50	\$ 3,300.00	40		\$ 220.00
9.05	Inlet Protection Device, Install	10	EACH	\$400.00	\$ 4,000.00	0		\$ -
9.06	Inlet Protection Device, Maintenance	40	EACH	\$60.00	\$ 2,400.00	0		\$ -
9.07	Type "I" Inlet Filter	10	EACH	\$400.00	\$ 4,000.00	0		\$ -
TOTAL ORIGINAL CONTRACT =					\$ 621,804.00	\$ 625,024.60		

CHANGE ORDER SUMMARY:									
Change Order No. 1									
7.10	Light Pole Removal	2	EACH	\$ 1,020.00	\$ 2,040.00	2	1	\$ 2,040.00	
TOTAL CHANGE ORDER NO. 1 = \$					2,040.00			\$ 2,040.00	
Change Order No. 2									
2.02	Excavation, Class 10, Roadway	320	SY	\$ 15.00	\$ 4,800.00		2	\$ -	
2.03	Subgrade Preparation, 12"	255	SY	\$ 3.00	\$ 765.00		2	\$ -	
2.04	Modified Subbase, 8"	255	SY	\$ 9.00	\$ 2,295.00		2	\$ -	
2.05	3 in. Clean Trench Stabilization Material	438.78	TN	\$ 23.75	\$ 10,421.03	480.84	2	\$ 11,419.95	
2.06	Subgrade Preparation, 12"	605	SY	\$ 2.00	\$ 1,210.00	605	2	\$ 1,210.00	
2.07	Modified Subbase, 6"	291.87	TN	\$ 20.75	\$ 6,056.30	291.87	2	\$ 6,056.30	
7.01	Standard/Slip-Form PCC Pavement, Class C, 8"	90	SY	\$ 65.00	\$ 5,850.00		2	\$ -	
7.04	Removal of Pavement	116	SY	\$ 6.00	\$ 696.00		2	\$ -	
7.11	Standard/Slip-Form PCC Pavement, Class C, 7"	605	SY	\$ 58.74	\$ 35,537.70	612.1	2	\$ 35,954.75	
8.03	Additional Painted Pavement Markings	9.52	STA	\$ 82.50	\$ 785.40	9.52	2	\$ 785.40	
8.04	Additional Painted Pavement Markings - Symbols	2	EACH	\$ 137.50	\$ 275.00	2	2	\$ 275.00	
8.05	Additional Traffic Control - Business Signs	3	EACH	\$ 394.33	\$ 1,183.00	3	2	\$ 1,183.00	
TOTAL CHANGE ORDER NO. 2 = \$					69,874.43			\$ 56,884.41	
Change Order No. 3									
2.03	Subgrade Preparation, 12"	630.8	SY	\$ 2.00	\$ 1,261.60	630.8	3	\$ 1,261.60	
2.04	Modified Subbase, 8"	630.8	SY	\$ 9.00	\$ 5,677.20	630.8	3	\$ 5,677.20	
7.12	Standard/Slip-Form PCC Pavement, Class C, 7" (S. 23rd St Repair)	630.8	SY	\$ 39.16	\$ 24,702.13	630.8	3	\$ 24,702.13	
TOTAL CHANGE ORDER NO. 3 = \$					31,640.93			\$ 31,640.93	
Change Order No. 4									
4.02	Storm Sewer, Trenched, Class 3 RCP, 24"	16	LF	\$ 82.00	\$ 1,312.00		4	\$ -	
4.07	Storm Sewer, Trenched, Class 3 RCAP, 36"x23"	5	LF	\$ 215.00	\$ 1,075.00		4	\$ -	
4.08	Removal of Storm Sewer, Less than or equal to 36"	-85	LF	\$ 25.00	\$ (2,125.00)		4	\$ -	
4.12	Subdrain Longitudinal (Backslope) 6"	1	LS	\$ 37,865.02	\$ 37,865.02	0.9	4	\$ 34,078.52	
4.13	Flowable Mortar	1	LS	\$ 2,227.00	\$ 2,227.00	1.0	4	\$ 2,227.00	
6.06	Connection to Existing Pipe	1	EACH	\$ 500.00	\$ 500.00		4	\$ -	
6.08	Connect Roof Drains to Storm Sewer	3	EACH	\$ 1,081.33	\$ 3,243.99	3.0	4	\$ 3,243.99	
6.09	Manhole Adjustment - Major	2	EACH	\$ 1,875.00	\$ 3,750.00	2.0	4	\$ 3,750.00	
TOTAL CHANGE ORDER NO. 4 = \$					47,848.01			\$ 43,299.51	
Change Order No. 5									
7.13	PCC Cold Weather Protection	1	LS	\$ 2,926.00	\$ 2,926.00	1.0	5	\$ 2,926.00	
TOTAL CHANGE ORDER NO. 5 = \$					2,926.00			\$ 2,926.00	
TOTAL CHANGE ORDERS = \$					154,329.37				
TOTAL CONTRACT & CHANGE ORDERS \$					776,133.37			\$ 761,815.44	