

December 6, 2024
Project No. 210262

Adam Smith
City Manager
City of Grand Ledge
310 Greenwood Street
Grand Ledge, MI 48837

Change Order 12 – City of Grand Ledge Iron Removal Plant, Description, and Impact

The following is a description of the items for Change Order 12 of the Grand Ledge Iron Removal Plant Project:

Contract Modifications from Change Order:

- Original Contract Price – \$17,338,148.00
- Contract Price following previous Change Orders – \$17,381,489.07
- Modification to Contract Price from Change Order 12 – \$4,322.67
- Modification to Contract Price from all Change Orders – \$47,663.74
- Revised Contract Price with current Change Order – \$17,385,811.74
- Change Order as percentage of original Contract Price (without Value Engineering) – 1.53%

Table 1 – Change Order 12 Monetary Impact Breakdown

Item No.	Item Description	Contract Modification	Cumulative Contract Price
1	Additional Chlorine Gas Monitoring Outputs	\$4,322.67	\$17,385,811.74

Narrative Description of Change Order

Change Order 12 includes the addition of two relays on the chlorine gas meter to provide additional monitoring for safety.

The items are as follows:

ITEM NO. 1

- Additional Chlorine Gas Monitoring Outputs
 - The chlorine gas monitor has a relay output to alarm to SCADA, which would actuate chlorine gas cylinder closure. Additional outputs were added for a warning rather than an alarm to avoid nuisance trips of the alarm and a fault alarm was added in case of failure of the monitor.

Impact to Project

The items within this Change Order add cost for items deemed necessary to the project. They add a total of \$4,322.67 to the project.

If you have any questions or require additional information, please contact me at 616.464.3825 or cmccorkle@fishbeck.com.

Sincerely,



Colin G. McCorkle, PE

Senior Water and Wastewater Engineer

Attachments

By email

Copy: David Pawley – City of Grand Ledge
Kurt Ristow – City of Grand Ledge
Dave Baar, PE – Fishbeck
John Willemin, PE – Fishbeck

CHANGE ORDER
 PAGE 1 OF 2

CONTRACT FOR:	City of Grand Ledge Iron Removal Plant
OWNER:	City of Grand Ledge 310 Greenwood Street Grand Ledge, MI 48837
CONTRACTOR:	RK Davis, Inc. 4457 40th Street, SE Kentwood, MI 49512
ENGINEER:	Fishbeck 1515 Arboretum Drive, SE Grand Rapids, MI 49546
ATTACHMENTS:	Bulletin 11 Pricing Response
Contractor shall indicate approval of Change Order through signing of this document and returning to Engineer. Engineer will forward to Owner, who shall indicate approval of Change Order through signing of this document and returning to Engineer. Upon receipt of fully executed (all signatures) Change Order, Engineer will distribute to all parties.	
YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THE CONTRACT DOCUMENTS:	
The following items changing the contract documents were chosen by the Owner for execution:	
<u>ITEM NO. 1: Additional Chlorine Gas Monitoring Panel Outputs</u>	
Sheet: P104 – Chemical Feed Schematic and P&ID E505 – Electrical Details I102 – I/O List and Wiring Schedule	
A. Add two additional Chlorine Gas Monitoring Panel Outputs to Control Panel CP-MAIN.	
ADD: \$4,322.67	

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES: N/A
Original Contract Price:	Original Contract time: <u>March 7, 2023</u>
<u>\$17,338,148.00</u>	Substantial Completion: <u>January 16, 2025</u>
	Ready for final payment: <u>February 17, 2025</u>
Net Change from Previous Change Orders: 1-11	Net change from previous Change Orders:
<u>\$43,341.07</u>	<u>0 Days</u>
Contract Price prior to this Change Order:	Contract Time prior to this Change Order:
<u>\$17,381,489.07</u>	Substantial Completion: <u>January 16, 2025</u>
	Ready for final payment: <u>February 17, 2025</u>
Net increase of this Change Order:	Net change of this Change Order:
<u>\$4,322.67</u>	<u>0 Days</u>
Contract Price with all approved Change Orders:	Contract Time with all approved Change Orders:
<u>\$17,385,811.74</u>	Substantial Completion: <u>January 16, 2025</u>
	Ready for final payment: <u>February 17, 2025</u>

CHANGE ORDER
PAGE 2 OF 2

RECOMMENDED

APPROVED

APPROVED

By: Colin McCorkle
Engineer

By: Peter C. Elzinga
Contractor

By: _____
Owner

Colin G. McCorkle, PE
Senior Water/Wastewater Engineer

Peter C. Elzinga, P.E., Project Manager
Name and Title of Signatory

Name and Title of Signatory

Date: December 5, 2024

Date: Decembe 6, 2024

Date: _____

END OF CHANGE ORDER

BULLETIN
 PAGE 1 OF 2

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CONTRACTOR:	RK Davis, Inc. 4457 40th Street, SE Kentwood, MI 49512
ENGINEER:	Fishbeck 1515 Arboretum Drive, SE Grand Rapids, MI 49546
DRAWING REVISION NO.:	B11
ISSUED HEREWITH:	
SPECIFICATION SECTIONS:	None
SHEETS:	C201, P104, E505, I102
DISTRIBUTION:	Kurt Ristow – City of Grand Ledge Peter Elzinga – RK Davis, Inc. Rob Kaliniak – RK Davis, Inc. Steve Johnson, PE – Fishbeck John Willemin, PE – Fishbeck

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This Bulletin is not a Change Order and is not to be deemed authorization to proceed with the changes listed.

Additional work or materials, where proposed, shall meet the requirements of the Contract Documents, except where noted.

Contractor is responsible for notifying Engineer, in writing, concerning any revision or clarification which causes a change in the Contract Documents, but not specifically mentioned as a cost item in this Bulletin.

Return one completed and signed copy of the Bulletin to Engineer on or before the due date noted above.

Each proposed change has been described briefly with additional information provided concerning detailed changes required for the major trades concerned. Only one total cost figure has been requested for each item on the Bulletin; however, a complete breakdown is required for each item as supporting documentation. This will allow Owner to more easily evaluate the proposed cost changes. Each Bulletin item is an all-inclusive item and may concern work from several trades or Subcontractors. It is Contractor's responsibility to ensure that all work for each item has been included in the total cost figure provided to Owner.

ITEM NO. 1: Addition of Concrete Rolled Curb along east edge of Aeration Building
 Sheet: C201 – Site Layout Plan (reissued)

- A. Revise plan to pour concrete rolled curb along east and south edge of Aeration Building. Bollards on east edge of Aeration Building to be within concrete curb.

ADD/DEDUCT: \$ 6,827.02

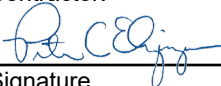
BULLETIN
PAGE 2 OF 2

ITEM NO. 2: Additional Chlorine Gas Monitoring Panel Outputs
Sheet: P104 – Chemical Feed Schematic and P&ID (reissued)
E505 – Electrical Details (reissued)
I102 – I/O List and Wiring Schedule (reissued)

A. Add two additional Chlorine Gas Monitoring Panel Outputs to Control Panel CP-MAIN.

ADD/DEDUCT: \$ 4,322.67 _____

Contractor: RK Davis, Inc.



Signature

Peter C. Elzinga, P.E., Project Manager

Name and Title of Signatory

November 18, 2024

Date

END OF BULLETIN

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ADD/DEDUCT: \$ 0.00

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Sheet: P104 – Chemical Feed Schematic and P&ID (reissued)
E505 – Electrical Details (reissued)
I102 – I/O List and Wiring Schedule (reissued)

A. Add two additional Chlorine Gas Monitoring Panel Outputs to Control Panel CP-MAIN.

~~ADD~~ DEDUCT: \$ 4,066.00

Contractor: Centennial Electric LLC

Signature

Tracy Sears - Project Manager

Name and Title of Signatory

11/12/2024

Date

END OF BULLETIN

Bid Summary Report

Grand Ledge Iron Plant Estimator: Mike

Job #2187

Job Name: Grand Ledge Iron Plant

Contractor:

Estimator: Mike

Notes:

Bid Date: 12/1/2022

Summary Description	Material			Labor		
	Extended	%	Adjusted	Extended	%	Adjusted
Bulletin #11	\$1,007.51	100.00%	\$1,007.51	8.23	112.15%	9.23

Top Sheet

Raw Cost	\$3,451.91	Sales per Month	\$0.00
Tax	\$60.45	Return per Month	\$0.00
Raw Cost with Tax	\$3,512.36	Price per Square Foot	\$0.00
Overhead	\$517.79	Hours per Square Foot	0.00
Profit	\$0.00	Square Feet	0.00
Total Return Amount	\$517.79	Job Months	0.00
Total Return %	12.73%	Hours per Week	0.00
Remaining Labor Hours	0.00	Average Hourly Rate w/ Burden	102.32
Price	\$4,030.15	Workers per Day	0.00
Bond	\$36.27	Total Hours	9.23
Sell Price	\$4,066.42	Markup Sales Tax (Overhead)	No
Adjusted Sell	\$0.00	Markup Sales Tax (Profit)	No
Adjusted Sell Return 0.00%	\$0.00	Use Bond Table	Yes

Labor

Class Description	Percent of Total	Hours Distributed	Hourly Rate	Burden		Labor Cost
				Rate	Percent	
Journeyman Local 665	89.17%	8.23	\$99.62	\$0.00	0.00%	\$819.87
Foreman Local 665	0.00%	0.00	\$114.56	\$0.00	0.00%	\$0.00
Project Manager Time	10.83%	1.00	\$124.53	\$0.00	0.00%	\$124.53
Totals	100.00%	9.23	\$102.32	\$0.00	0.00%	\$944.40

Bid Summary Report

Grand Ledge Iron Plant Estimator: Mike

Job #2187

Mark Ups	OVERHEAD				PROFIT	
	Total	%	Amount	%	Amount	
Materials	\$1,007.51	+ 15.00%	\$1,158.63	+ 0.00%	\$1,158.63	
Labor	\$944.40	+ 15.00%	\$1,086.06	+ 0.00%	\$1,086.06	
Supplier Quotes	\$1,500.00	+ 15.00%	\$1,725.00	+ 0.00%	\$1,725.00	
SubContractors	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00	
Direct Job Expense	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00	
Equipment Rental	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00	
Fixtures Quotes	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00	
Totals	\$3,451.91	15.00%	\$3,969.70	0.00%	\$3,969.70	

Tax Report	Taxed Amount	Tax Rate %	Tax Amount
Materials	\$1,007.51	6.00%	\$60.45
Labor	\$944.40	0.00%	\$0.00
Supplier Quotes	\$0.00	6.00%	\$0.00
SubContractors	\$0.00	0.00%	\$0.00
Direct Job Expense	\$0.00	6.00%	\$0.00
Equipment Rental	\$0.00	6.00%	\$0.00
Fixtures Quotes	\$0.00	6.00%	\$0.00
	Total Tax:		\$60.45

Supplier Quotes					
Name	Supplier	Tax (6.0%)	Unit Cost	Mult	Amount
Instrumentation/SCADA	Perceptive	No	\$1,500.00	1.00	\$1,500.00
Totals:					\$1,500.00

Job Name: Grand Ledge Iron Plant
 Job Number: 2187
 Extension Name: Bulletin #11

Item #	Item Name	Quantity	Book Price	U	Ext Book Price	NECA 1	U	Labor 1 Ext	CCode	% of Extended Price	% of Extended Hours
Label Set: Combined, Combined, Combined, Combined, Combined					<u>\$1,007.51</u>			<u>8.23</u>		<u>100%</u>	<u>100%</u>
CCode: <none>					<u>\$153.60</u>			<u>3.20</u>		<u>15.25%</u>	<u>38.88%</u>
60,178	14 THHN CU STRANDED	640.00	\$240.00	M	<u>\$153.60</u>	5.00	M	<u>3.20</u>			
CCode: <undefined>					<u>\$68.00</u>			<u>1.96</u>		<u>6.75%</u>	<u>23.82%</u>
60,188	Coordination/Layout	1.00	\$0.00		<u>\$0.00</u>	1.00	E	<u>1.00</u>			
60,189	Wire Label	8.00	\$8.50	E	<u>\$68.00</u>	0.12	E	<u>0.96</u>			
CCode: Branch Rough					<u>\$734.16</u>			<u>1.95</u>		<u>72.87%</u>	<u>23.69%</u>
1,262	3/4 GRC	-150.00	\$602.50	C	<u>(\$903.75)</u>	6.00	C	<u>-9.00</u>	cb		
1,263	1 GRC	150.00	\$1,064.86	C	<u>\$1,597.29</u>	7.00	C	<u>10.50</u>	cb		
2,731	3/4 LOCKNUT	-30.00	\$127.96	C	<u>(\$38.39)</u>	0.12	E	<u>-3.60</u>	cb		
2,732	1 LOCKNUT	30.00	\$222.60	C	<u>\$66.78</u>	0.13	E	<u>3.90</u>	cb		
2,769	3/4 BUSH PLASTIC	-15.00	\$158.23	C	<u>(\$23.73)</u>	0.12	E	<u>-1.80</u>	cb		
2,770	1 BUSH PLASTIC	15.00	\$239.74	C	<u>\$35.96</u>	0.13	E	<u>1.95</u>	cb		
CCode: Hangers/Anchors					<u>\$0.00</u>			<u>0.00</u>		<u>0%</u>	<u>0%</u>
CCode: Straps					<u>\$51.75</u>			<u>0.00</u>		<u>5.14%</u>	<u>0%</u>
3,073	3/4 GRC 1H STL STP	-18.75	\$233.39	C	<u>(\$43.76)</u>	4.00	C	<u>-0.75</u>	cs		
3,074	1 GRC 1H STL STP	18.75	\$509.39	C	<u>\$95.51</u>	4.00	C	<u>0.75</u>	cs		
CCode: Lugs/Termination/Ground					<u>\$0.00</u>			<u>1.12</u>		<u>0%</u>	<u>13.61%</u>
5,767	20A WIRE TERMINATION	8.00	\$0.00	X	<u>\$0.00</u>	0.14	E	<u>1.12</u>	sl		
					<u>\$1,007.51</u>			<u>8.23</u>			

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ADD/DEDUCT: \$ NA

BULLETIN
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Sheet: P104 – Chemical Feed Schematic and P&ID (reissued)
E505 – Electrical Details (reissued)
I102 – I/O List and Wiring Schedule (reissued)

A. Add two additional Chlorine Gas Monitoring Panel Outputs to Control Panel CP-MAIN.

ADD/DEDUCT: \$ ADD \$1,500.00

Contractor:



Signature

Ryan Fisher

Name and Title of Signatory

11/11/24

Date

END OF BULLETIN