

January 29, 2023  
Project No. 210262

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

### Change Order 9 – City of Grand Ledge Iron Removal Plant, Description, and Impact

The following is a description of the items for Change Order 9 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 – \$17,328,489.62
- Modification to Contract Price from Change Order 9 – \$6,566.34
- Modification to Contract Price from all Change Orders – (\$3,092.04)
- Revised Contract Price with current Change Order – \$17,335,055.96

**Table 1 – Change Order 9 Monetary Impact Breakdown**

Item No.	Item Description	Contract Modification	Cumulative Contract Price
1	MCC Support Slab	\$6,565.91	\$17,335,055.53
2	Pump Room Wall Modification	\$988.55	\$17,336,044.08
3	Wet Well Instrumentation Relocation	\$701.66	\$17,336,745.74
4	Pump Room Electrical Equipment Relocation	\$0.00	\$17,336,745.74
5	Sewer Adjustment at North End of Site	(\$1,689.78)	\$17,335,055.96

#### Narrative Description of Change Order

Change Order 9 includes a number of changes related to an unexpected size increase in the MCCs in the Pump Room area. The increased size resulted in changes to the concrete slab supporting the MCCs, relocation of some instrumentation near the MCCs, and some adjustment of surrounding walls to accommodate. A small cost savings came from an adjustment of the sewer at the north end of the site due to the finding of fiber conduits deep underground.

The items are as follows:

#### ITEM NO. 1

- Motor Control Center (MCC) Support Slab
  - The size of the MCC was larger than expected. This includes modification of the existing slab and support wall to accommodate the larger MCC.

#### ITEM NO. 2

- Pump Room Wall Modification
  - This includes enlarging the slab directly under MCC equipment to accommodate the larger size as well as a small modification to the wall to allow for more space for the MCC.

ITEM NO. 3

- Wet Well Instrumentation Relocation
  - Because of the MCCs larger size some instrumentation equipment had to be relocated along the floor and along the wall.

ITEM NO. 4

- Pump Room Electrical Equipment Relocation
  - The electrical equipment in the pump room had to be relocated to accommodate the larger sized MCC.

ITEM NO. 5

- Sewer Adjustment at North End of Site
  - Some fiber conduit lines were found deep underground, lower than would be expected. The sewer in this area had to be adjusted to go below the fiber conduit lines. While this change added a sanitary manhole for the elevation adjustment, it eliminated the drop pipe at the far end of the connection, which resulted in a small savings for the project.

**Impact to Project**

The items within this Change Order add cost but were deemed necessary to the project. They added a total of \$6,566.34 to the project with all of the cost additions resulting from an unexpected change in size of the MCCs in the Pump room area. These changes are necessary for a complete working treatment plant.

If you have any questions or require additional information, please contact me at 616.464.3825 or [cmccorkle@fishbeck.com](mailto: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 1

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 8 Pricing Response, RFI 29 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 from Change Proposal 1 for execution:

ITEM NO. 1: MCC Support Slab

Sheet: S102 – Detention Basin Plans (reissued)  
S302 – Sections and Details (reissued)

- A. Add concrete wall and slab at location shown. Pour interior wall separate from perimeter wall to avoid mass concrete requirements.

**ADD: \$6,565.91**

ITEM NO. 2: Pump Room Wall Modification

Sheet: A101 – First Floor and Equipment Platform Plan (reissued)  
S201 – First Floor and Equipment Platform Plan (reissued)

- A. Modify wall between Process Area 102 and Pump Room 118.
- B. Modify concrete pad supporting MCCs

**ADD: \$988.55**

ITEM NO. 3: Wet Well Instrumentation Relocation

Sheet: P206 – Enlarged Plans and Isometrics (reissued)

- A. Relocate Level Sensor LE-101
- B. Relocate Floor Pipe FP-1-1
- C. Relocate Level Transmitters LIT-101, LIT-102

**ADD: \$701.66**

ITEM NO. 4: Pump Room Electrical Equipment Relocation

Sheet: E201 – Power Plans (reissued)

- A. Relocate MCC-SB1.
- B. Relocate MCC-N1.
- C. Relocate Control Panel CP-PUMP.

**ADD: \$0.00**

CHANGE ORDER  
 PAGE 2 OF 1


ITEM NO. 5: Sewer Adjustment at North End of Site  
 Sheet: C401 – Site Utility Plan (reissued)

A. Add Sanitary MH-5 at STA 0+50.  
 B. Adjust slope of downstream pipe entering and exiting SAN MH-4.

**DEDUCT: \$1,689.78**


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>
<hr/>	
Previous Change Order No.: 1-8	Net change from previous Change Orders:
<u>(\$9,658.38)</u>	<u>0 Days</u>
<hr/>	
Contract Price prior to this Change Order:	Contract Time prior to this Change Order:
<u>\$17,328,489.62</u>	Substantial Completion: <u>January 16, 2025</u>
	Ready for final payment: <u>February 17, 2025</u>
<hr/>	
Net increase of this Change Order:	Net change of this Change Order:
<u>\$6,566.34</u>	<u>0 Days</u>
<hr/>	
Contract Price with all approved Change Orders:	Contract Time with all approved Change Orders:
<u>\$17,335,055.96</u>	Substantial Completion: <u>January 16, 2025</u>
	Ready for final payment: <u>February 17, 2025</u>

RECOMMENDED

By:   
 Engineer  
Colin G. McCorkle, PE  
 Senior Water/Wastewater Engineer

Date: January 29, 2024

APPROVED

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

Date: January 29, 2024

APPROVED

By:   
 Owner  
Adam Smith, City Manager  
 Name and Title of Signatory

Date: 2/14/24

END OF CHANGE ORDER