

May 15, 2024
Project No. 210262

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

Change Order 10 – City of Grand Ledge Iron Removal Plant, Description, and Impact

The following is a description of the items for Change Order 10 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 – \$17,335,055.96
- Modification to Contract Price from Change Order 10 – \$10,169.23
- Modification to Contract Price from all Change Orders – \$7,011.19
- Revised Contract Price with current Change Order – \$17,345,225.19

Table 1 – Change Order 10 Monetary Impact Breakdown

Item No.	Item Description	Contract Modification	Cumulative Contract Price
1	Revision of Floor Sloping per RFI 34	\$0.00	\$17,335,055.96
2	Moving Fire Department Connection	\$8,643.21	\$17,343,699.17
3	Adding Fire Department Key Box	\$1,048.22	\$17,344,747.39
4	Adjust Return Air Duct for Lab	\$0.00	\$17,344,747.39
5	Clarification on Foundation Drain	\$0.00	\$17,344,747.39
6	Allow SS Wall Sleeves in Lieu of PVC	\$0.00	\$17,344,747.39
7	Clarification on Grating Type	\$0.00	\$17,344,747.39
8	Note on Hatch Drains	\$0.00	\$17,344,747.39
9	Foundation Adjustment for Truss bearing	\$0.00	\$17,344,747.39
10	Revert Drawings from Bulletin 9 Site Plan	\$0.00	\$17,344,747.39
11	Reroute Air Piping and move FE-430 to Blower Room	\$0.00	\$17,344,747.39
12	Addition of Electrified Hardware to Doors	\$2,385.80	\$17,347,133.19
13	Revision of Plywood Sheathing from 5/8" to 7/16"	(\$1,908.00)	\$17,345,225.19

Narrative Description of Change Order

Change Order 10 includes a number of changes related to some adjustment of the fire protection system and the addition of electrified door hardware to some of the main entrance doors. The other items are all no cost items that clarify the Contract Documents, so they remain as accurate as possible.

The items are as follows:

ITEM NO. 1

- Revision of Floor Sloping per RFI 34
 - This item includes revisions to the sloping of the floor in the chemical rooms to ensure there is adequate slope for these rooms to drain properly. This has been worked through with the Contractor. This is intended to update the Contract Documents to match most closely what is in construction.

ITEM NO. 2

- Moving Fire Department Connection
 - This includes moving the Fire Department Connection to the Fire Protection System to the north wall of the water plant. This was done at the behest of the Fire Department.

ITEM NO. 3

- Adding Fire Department Key Box
 - This includes the addition of a Fire Department Key Box to the front of the building to allow the Fire Department to access the building after hours.

ITEM NO. 4

- Adjustment of Air Duct Route in Laboratory
 - This item includes the adjustment of the air duct routing in the Laboratory. This has been worked through with the Contractor. This is intended to update the Contract Documents to match most closely with what is in construction.

ITEM NO. 5

- Clarification on Foundation Drain
 - This item includes the adjustment of the foundation drains on the Equalization Tank. This has been worked through with the Contractor. This is intended to update the Contract Documents to match most closely with what is in construction.

ITEM NO. 6

- Allow Stainless Steel Wall Sleeves in lieu of PVC
 - The Contractor requested that we allow stainless steel wall sleeves in lieu of PVC sleeves. This is a change to improve the ease of construction. However, the stainless steel sleeve is superior to the PVC sleeve so the City is getting a better product for the same price.

ITEM NO. 7

- Clarification on Grating Type
 - This item includes the changing of the grating type based on submittal review. This has been worked through with the Contractor. This is intended to update the Contract Documents to match most closely with what is in construction.

ITEM NO. 8

- Note on Hatch Drains
 - This item includes the clarification of the draining of the access hatches on the Aeration Detention Basin. This has been worked through with the Contractor. This is intended to update the Contract Documents to match most closely with what is in construction.

ITEM NO. 9

- Extend Foundation for Truss Bearing
 - This item includes the extension of a foundation for the truss bearing on the north side of the building. This has been worked through with the Contractor early on in the project at no cost. This is intended to update the Contract Documents to match most closely with what is in construction.

ITEM NO. 10

- Reversion of Bulletin 9 Site Plan Drawings
 - The reversion of the site plan to its original state (removing the relocation of the hydrant from the original Bulletin 9).

ITEM NO. 11

- Rerouting of Air Scour Piping
 - This item includes the rerouting of some air scour piping. This has been worked through with the Contractor early on in the project at no cost. This is intended to update the Contract Documents to match most closely with what is in construction.

ITEM NO. 12

- Addition of Electrified Hardware to Relevant Doors
 - Doors that were intended to have card readers were supplied without electrified hardware. This change will add said electrified hardware to allow for card readers to operate on the relevant doors.

ITEM NO. 13

- Revision of Plywood Sheathing from 5/8" to 7/16"
 - The Contractor requested that we reduce the depth of the plywood sheathing from 5/8" to 7/16". Our Architect and Structural Engineer determined that this reduced depth would provide the same performance as the original specified sheathing. This was accepted as a value engineering item.

Impact to Project

The items within this Change Order add cost but were deemed necessary to the project. They added a total of \$10,169.23 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 3

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 9 Revised 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:

ITEM NO. 1: Revision of Floor Sloping per RFI 34

Sheet: S101 – Foundation Plan (reissued)
S301 – Sections and Details (reissued)
S302 – Sections and Details (reissued)

A. Revisions to sloping of floor in chemical rooms to ensure slope is adequate to properly drain room.

CLARIFICATION

ITEM NO. 2: Moving Fire Department Connection

Sheet: A301 – Exterior Elevations (reissued)
P201 – Overall First Floor, Equipment Platform, and EQ Tank Plans (reissued)
P301 – Sections (reissued)
M301 – Fire Protection Plan (reissued)

A. Refer to North Elevation. Fire Department Connection (Keynote 31) relocated to north wall of Process Area adjacent to window. Provide smooth face CMU-3 at FDC mounting location.

ADD: \$8,643.21

ITEM NO. 3: Adding Fire Department Key Box

Sheets: A301 – Exterior Elevations (reissued)

A. Refer to West Elevation. Wall mounted Knox Box (Keynote 32) added north of Door 101 sidelite.
B. Refer to Keynotes. Keynote 32 added related to Knox Box installation.

ADD: \$1,048.22

ITEM NO. 4: Adjustment of Air Duct Route in Laboratory

Sheet: M501 – First Floor Mechanical Sheet Plan (reissued)

A. Adjust return air duct route in Office 116 and Lab 115 to avoid lintel.

CLARIFICATION

CHANGE ORDER
PAGE 2 OF 3

ITEM NO. 5: Clarification on Foundation Drain
Sheet: S103 – Equalization Tank Plan (reissued)

- A. Remove note referencing foundation drain.

CLARIFICATION

ITEM NO. 6: Allow Stainless Steel Wall Sleeves in Lieu of PVC
Specification: 23 31 16 – Non-metal Ductwork (reissued)

- A. Non-metal ductwork to allow for 316 stainless steel wall sleeve in lieu of PVC sleeve per RFI 33.

CLARIFICATION

ITEM NO. 7: Clarification on Grating Type
Sheet: S101 – Foundation Plan (reissued)

- A. Remove reference to covered grating per RFI 32.

CLARIFICATION

ITEM NO. 8: Note on Hatch Drains
Sheet: S303 – Sections and Details (reissued)

- A. Provide hatch drains.

CLARIFICATION

ITEM NO. 9: Extend Foundation for Truss Bearing
Sheets: S101 – Foundation Plan (reissued)
S201 – Roof Framing Plans (reissued)

- A. Add foundation for CMU wall. Extend wall type W2 below truss bearing location.

CLARIFICATION

ITEM NO. 10: Reversion of Previous Bulletin 9 Site Plan Drawings
Sheets: C201 – Site Layout Plan (reissued)
C401 – Site Utility Plan (reissued)
C402 – West Water Main Plan (reissued)

- A. Revert drawings to pre Bulletin 9.

CLARIFICATION

ITEM NO. 11: Rerouting of Air Scour Piping
Sheet: P201 – Overall First Floor, equipment Platform and EQ Tank Plans (reissued)
P301 – Sections (reissued)

- A. Move FE-430 from Process Area to Blower Room, as shown on P201.
- B. Reroute 4" Air Scour piping in Process Area, as shown on P201 and P301.

CLARIFICATION

ITEM NO. 12: Addition of Electrified Hardware to Relevant Doors
Sheet: A202 – Door Schedule and Room Finish Schedule (Not Reissued)

- A. Refer to Door Schedule. Under "Notes" column for doors 101, 102C and 110, add Door Note 5.
- B. Under "Door Notes," add the following: "5. Card Reader."

Section: 08 71 00 - (Not Reissued)

- A. Refer to Paragraph 3.5 – Door Hardware Schedule, Hardware Set 05 for Door 110.
 - a. Power supply and card reader by Security Contractor.
 - b. Provide Von Duprin Electric Strike 6300 FSE 630 and Wire Harness CON-192 for use with card reader.
- B. Refer to Paragraph 3.5 – Door Hardware Schedule, Hardware Sets 11 and 12 for Doors 101 and 102C.
 - a. Power supply and card reader by Security Contractor.
 - b. Provide Von Duprin Electric Strike 6210 FSE CON 630 and Wire Harness CON-192 for use with card reader.

ADD: \$2,385.80



CHANGE ORDER
 PAGE 3 OF 3

ITEM NO. 13: Revision of Plywood Sheathing from 5/8" to 7/16"
 Sheet: A501 – Sections (Not Reissued)
 A502 – Sections (Not Reissued)

A. Refer to Wall Sections 1/A501 and 1/A502. Revise roof sheathing from 5/8" plywood to 7/16" OSB. Revise note regarding standing seam metal roofing to read: "Standing seam metal roofing on synthetic non-asphaltic underlayment on 7/16" OSB. Refer to Roof Plan for locations of self-adhering underlayment."
 B. Attachment of roof sheathing to the 22 gauge roof deck per 4 x 8 sheathing panel to be as follows:
 a. Corner Zones: Not less than (32) #10 screws through the sheathing to the 22 gauge deck.
 b. Edge Zones: Not less than (20) #10 screws through the sheathing to the 22 gauge deck.
 c. Interior Zones: Not less than (18) #10 screws through the sheathing to the 22 gauge deck.

DEDUCT: \$1,908.00

CHANGE IN CONTRACT PRICE: Original Contract Price: <u>\$17,338,148.00</u> <hr/> Previous Change Order No.: 1-9 <u>(\$3,092.04)</u> Contract Price prior to this Change Order: <u>\$17,335,055.96</u> Net increase of this Change Order: <u>\$10,169.23</u> <hr/> Contract Price with all approved Change Orders: <u>\$17,345,225.19</u>	CHANGE IN CONTRACT TIMES: N/A Original Contract time: <u>March 7, 2023</u> Substantial Completion: <u>January 16, 2025</u> Ready for final payment: <u>February 17, 2025</u> <hr/> Net change from previous Change Orders: <u>0 Days</u> Contract Time prior to this Change Order: Substantial Completion: <u>January 16, 2025</u> Ready for final payment: <u>February 17, 2025</u> <hr/> Net change of this Change Order: <u>0 Days</u> Contract Time with all approved Change Orders: Substantial Completion: <u>January 16, 2025</u> Ready for final payment: <u>February 17, 2025</u>
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RECOMMENDED By: <u></u> Engineer <u>Colin G. McCorkle, PE</u> Senior Water/Wastewater Engineer Date: <u>May 3, 2024</u>	APPROVED By: <u></u> Contractor <u>Peter C. Elzinga, P.E., Project Manager</u> Name and Title of Signatory Date: <u>May 13, 2024</u>	APPROVED By: _____ Owner _____ Name and Title of Signatory Date: _____
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END OF CHANGE ORDER

BULLETIN
PAGE 1 OF 5

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
DRAWING REVISION NO.:	B9R
ISSUED HEREWITH:	
SPECIFICATION SECTIONS:	23 31 16
SHEETS:	C201, C401, C402, A301, S101, S103, S201, S301, S302, S303, P201, P301, M301, M501
DISTRIBUTION:	Kurt Ristow – City of Grand Ledge Peter Elzinga – RK Davis, Inc. Rob Kaliniak – RK Davis, Inc. Jodie Ross, PE – Fishbeck Steve Johnson, PE - Fishbeck John Willemin, PE – Fishbeck
<p>The items below are being considered as possible changes to the Contract Documents for this Project. Contractor is requested to submit changes in cost, if any, for each item and indicate whether it is an addition to or deduction from the Contract Price. Costs are requested as lump sums unless otherwise noted as a unit cost. Include all labor, materials, overhead and profit, trades, subcontractors, and related costs. After reviewing the effects of those changes in the Work, Owner may issue a Change Order specifying which changes are to be incorporated in the Work, if any.</p> <p>This Bulletin is not a Change Order and is not to be deemed authorization to proceed with the changes listed.</p> <p>Additional work or materials, where proposed, shall meet the requirements of the Contract Documents, except where noted.</p> <p>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.</p> <p>Return one completed and signed copy of the Bulletin to Engineer on or before the due date noted above.</p> <p>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.</p>	

BULLETIN
 PAGE 2 OF 5

ITEM NO. 1: Revision of Floor Sloping per RFI 34

Sheets: S101 – Foundation Plan (reissued)
 S301 – Sections and Details (reissued)
 S302 – Sections and Details (reissued)

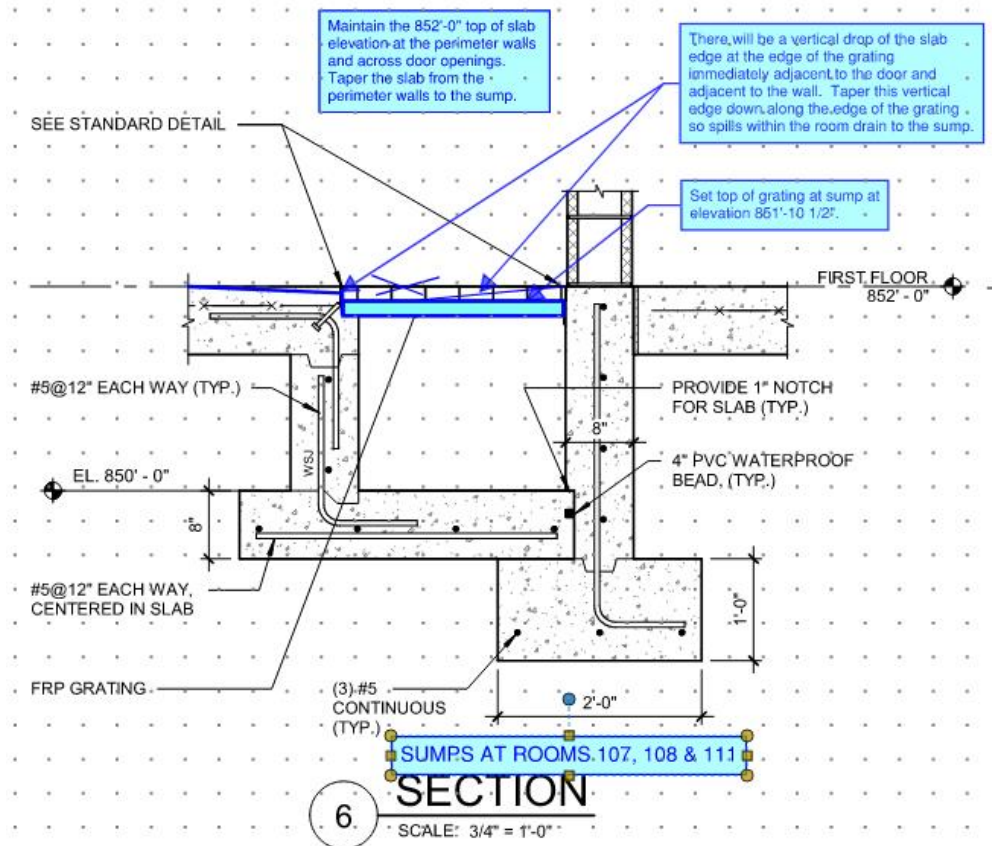
A. Clarification of Floor Slopes:

1. At Rooms 107 and 108 (See Sketch Below):

Set top of grating elevation at sump at elevation 851'-10 1/2", down 1-1/2" from the 852'-0" top of floor elevation at the edge of the rooms. Maintain the 852'-0" top of slab elevation at the perimeter walls and across door openings. Taper the slab from the perimeter walls to the sump. There will be a vertical drop of the slab edge at the edge of the grating immediately adjacent to the door and adjacent to the wall. Taper this vertical edge down along the edge of the grating so spills within the room drain to the sump.

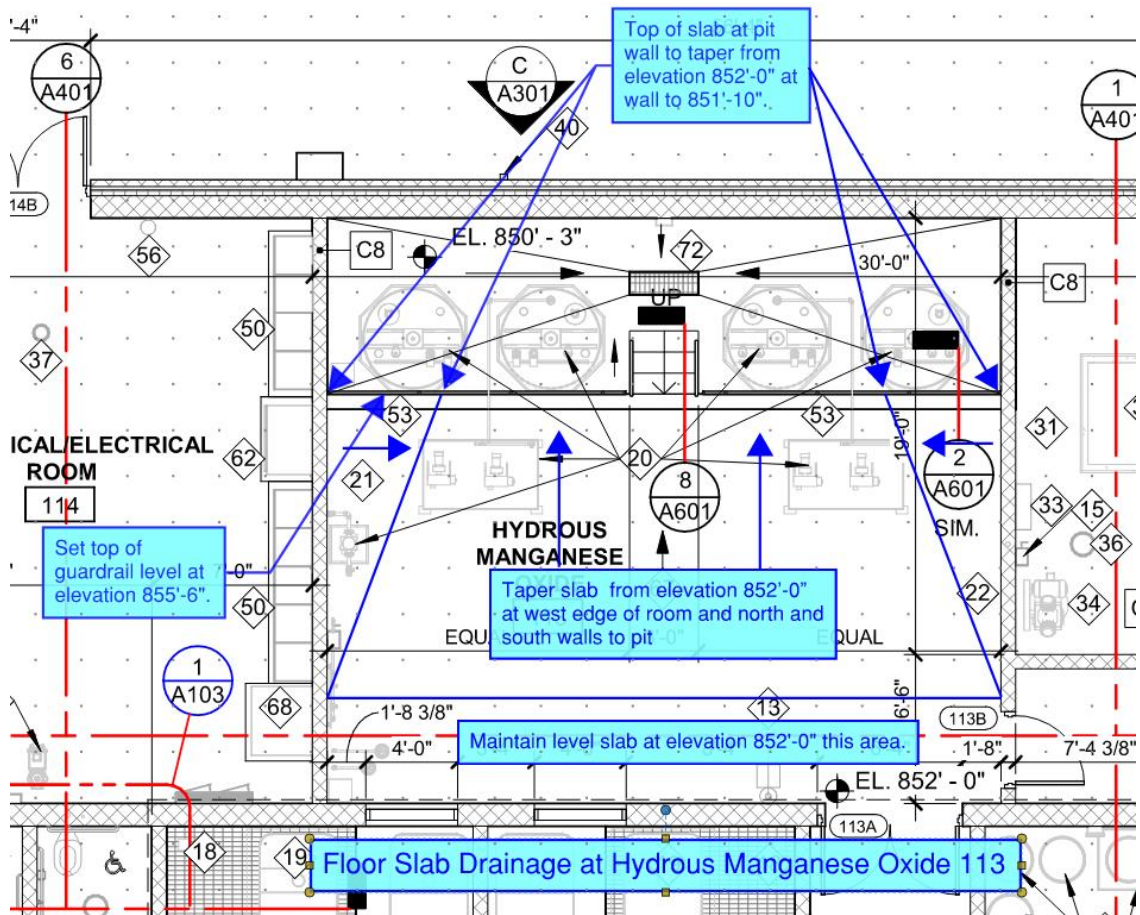
2. At Room 111 (See Sketch Below):

Set top of grating elevation at sump at elevation 851'-10 1/2", down 1-1/2" from the 852'-0" top of floor elevation at the edge of the rooms. Maintain the 852'-0" top of slab elevation at the perimeter walls and across door openings. Taper the slab from the perimeter walls to the sump. There will be a vertical drop of the slab edge at the edge of the grating immediately adjacent to the walls. Taper this vertical edge down along the edge of the grating so spills within the room drain to the sump.



BULLETIN
 PAGE 3 OF 5

3. At Room 113 (See Sketch Below):
 It is our understanding that the concrete wall at the west edge of the pit is poured with the top of wall elevation at elevation 851'-6". Maintain a level slab at elevation 852'-0" along west edge of room. Top of slab at pit wall to taper from elevation 852'-0" at north and south walls to 851'-10". Taper slab from elevation 852'-0" at west edge of room and north and south walls to pit. Set top of guardrail level at elevation 855'-6".



FOR CLARIFICATION

ITEM NO. 2: Moving Fire Department Connection

- Sheets: A301 – Exterior Elevations (reissued)
 P201 – Overall First Floor, Equipment Platform, and EQ Tank Plans (reissued)
 P301 – Sections (reissued)
 M301 – Fire Protection Plan (reissued)

- A. Refer to North Elevation. Fire Department Connection (Keynote 31) relocated to north wall of Process Area adjacent to window. Provide smooth face CMU-3 at FDC mounting location.

ADD DEDUCT: \$ 8,643.21

ITEM NO. 3: Adding Fire Department Key Box

- Sheets: A301 – Exterior Elevations (reissued)

- A. Refer to West Elevation. Wall mounted Knox Box (Keynote 32) added north of door 101 sidelite.
- B. Refer to Keynotes. Keynote 32 added related to Knox Box installation.

ADD DEDUCT: \$ 1,048.22

BULLETIN
PAGE 4 OF 5

ITEM NO. 4: Adjustment of Return Air Duct in Laboratory
Sheets: M501 – First Floor Mechanical Sheet Plan (reissued)
A. Adjust return air duct route in Office 116 and Lab 115 to avoid lintel.

FOR CLARIFICATION

ITEM NO. 5: Removal of Foundation Drain Note
Sheet: S103 – Equalization Tank Plan (reissued)
A. Remove note referencing foundation drain.

FOR CLARIFICATION

ITEM NO. 6: Allowance of 316 Stainless Steel Wall Sleeves for Ductwork
Section: 23 31 16 – Non-metal Ductwork (reissued)
A. Non metal ductwork to allow for 316 stainless steel wall sleeve in lieu of PVC sleeve per RFI 33.

FOR CLARIFICATION

ITEM NO. 7: Removal of Covered Grating Note
Sheet: S101 – Foundation Plan (reissued)
A. Remove reference to covered grating per RFI 32.

FOR CLARIFICATION

ITEM NO. 8: Addition of Drain Lines to Access Hatches
Sheet: S303 – Sections and Details (reissued)
A. Provide hatch drains.

FOR CLARIFICATION

ITEM NO. 9: Extension of Central Spread Footing Foundation to Northern Wall
Sheets: S101 – Foundation Plan (reissued)
S201 – Roof Framing Plans (reissued)
A. Add foundation for CMU wall. Extend wall type W2 below truss bearing location.

FOR CLARIFICATION

ITEM NO. 10: Reversion of Previous Bulletin 9 Site Plan Drawings
Sheets: C201 – Site Layout Plan (reissued)
C401 – Site Utility Plan (reissued)
C402 – West Water Main Plan (reissued)
A. Revert drawings to pre Bulletin 9.

ADD/DEDUCT: \$ _____

ITEM NO. 11: Adjustment of Air Scour Piping and Meter
Sheet: P201 – Overall First Floor, equipment Platform and EQ Tank Plans (reissued)
P301 – Sections (reissued)
A. Move FE-430 from Process Area to Blower Room, as shown on P201.
B. Reroute 4" Air Scour piping in Process Area, as shown on P201 and P301.

FOR CLARIFICATION

ITEM NO. 12: Addition of Electrified Hardware to Relevant Doors
Sheet: A202 – Door Schedule and Room Finish Schedule (Not Reissued)
A. Refer to Door Schedule. Under "Notes" column for doors 101, 102C and 110, add Door Note 5.
B. Under "Door Notes," add the following: "5. Card Reader."

Section: 08 71 00 - (Not Reissued)
A. Refer to Paragraph 3.5 – Door Hardware Schedule, Hardware Set 05 for Door 110.
a. Power supply and card reader by Security Contractor.
b. Provide Von Duprin Electric Strike 6300 FSE 630 and Wire Harness CON-192 for use with card reader.
B. Refer to Paragraph 3.5 – Door Hardware Schedule, Hardware Sets 11 and 12 for Doors 101 and 102C.
a. Power supply and card reader by Security Contractor.
b. Provide Von Duprin Electric Strike 6210 FSE CON 630 and Wire Harness CON-192 for use with card reader.

ADD DEDUCT: \$ 2,385.80

BULLETIN
PAGE 5 OF 5

ITEM NO. 13: Revision of Plywood Sheathing from 5/8" to 7/16"

Sheet: A501 – Sections (Not Reissued)
A502 – Sections (Not Reissued)

- A. Refer to Wall Sections 1/A501 and 1/A502. Revise roof sheathing from 5/8" plywood to 7/16" OSB. Revise note regarding standing seam metal roofing to read: "Standing seam metal roofing on synthetic non-asphaltic underlayment on 7/16" OSB. Refer to Roof Plan for locations of self-adhering underlayment."
- B. Attachment of roof sheathing to the 22 gauge roof deck per 4 x 8 sheathing panel to be as follows:
 - a. Corner Zones: Not less than (32) #10 screws through the sheathing to the 22 gauge deck.
 - b. Edge Zones: Not less than (20) #10 screws through the sheathing to the 22 gauge deck.
 - c. Interior Zones: Not less than (18) #10 screws through the sheathing to the 22 gauge deck.

ADD **DEDUCT** (\$ 1,908.00) _____

Contractor: RK Davis, Inc.



Signature

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

Name and Title of Signatory

05/02/2024

Date

END OF BULLETIN

RK Davis Construction
4457 40th St. SE
Kentwood, MI 49512

3/5/2024

Attention: **Peter Elzinga**

Project: Relocate the Fire Department Connection to the south side of Aeration building

Scope:

Change Fire department location from original location to the North side of the process wall adjacent to window. A dual 2-1/2 inch flat plate Siamese connection will be used on the face of the block. We will cut a round hole for the pipe to go through but if any block needs to be cut square or notched out that will need to be done by others.

Excluded:

Yard mounted FDC
Storz connection
Cutting masonry for faceplate
Knox Box for Fire department

Price: \$7,880.00

price is subject to change after 30 days

Thank you for the opportunity to provide this proposal
We look forward to doing business with you

Cody Grasman
Franklin Holwerda Company
2509 29th St. S.W.
Wyoming Mi 49509
Office: 616-538-3231
Mobile: 616-318-9537