

July 8, 2025  
Project No. 210262

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

### Change Order 15 – City of Grand Ledge Iron Removal Plant, Description, and Impact

The following is a description of the items for Change Order 15 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 – \$17,446,063.03
- Modification to Contract Price from Change Order 15 – \$9,375.39
- Modification to Contract Price from all Change Orders – \$117,290.42
- Revised Contract Price with current Change Order – \$17,455,438.42
- Change Order as percentage of original Contract Price (without Value Engineering) – 1.94%

**Table 1 – Change Order 15 Monetary Impact Breakdown**

Item No.	Item Description	Contract Modification	Cumulative Contract Price
1	Adjustment of Allowance	(\$4,076.03)	\$17,441,987.00
2	Move HMO Skid Pump Suction Valves	\$2,371.83	\$17,444,358.83
3	Exhaust Fan Switch Outside of Chlorine Gas Room	\$9,228.84	\$17,453,587.67
4	Move Thermostat in Blower Room	\$1,555.35	\$17,455,143.02
5	Paint Pipe in Existing Well House	\$295.40	\$17,455,438.42

#### Narrative Description of Change Order

Change Order 15 includes the adjustment of allowances in the project to the final number, moving of the HMO skid suction valves to a more accessible location, the installation of a switch outside the chlorine gas room to allow the large exhaust fan to operate, the moving of a thermostat in the blower room to avoid the excess heat off the air compressor, and a change proposal to provide additional painting of pipe and valves in Wellhouse 6.

The items are as follows:

#### ITEM NO. 1

- Adjustment in Allowances
  - As part of the project, a number of cash allowances were specified for items where the cost could not be established during design or bidding. Of these items, the special inspections allowance was increased \$6,094.10 to account for the special inspection agency’s costs. The electrical installation allowance, which is paid to the electrical utility for their work on the project, was reduced by \$5,000. The natural gas allowance, which is paid to the natural gas utility for their work on the project has been reduced by \$4,800. Finally, the Security allowance was reduced by \$8.28. Altogether, this results in a deduction of \$4,076.03 from the contract price.

ITEM NO. 2

- Move HMO skid pump suction valves
  - The HMO metering and transfer pumps came prefabricated on skids that were then installed in place by the Mechanical Contractor. Access to the suction valves for the pumps were difficult to access once the skids were installed. This item pays the Mechanical contractor to install replacement valves in a more accessible area.

ITEM NO. 3

- Exhaust Fan Switch Outside of Chlorine Gas Storage Room
  - As part of Ten States Standards, the Chlorine Gas Storage Room is recommended to have a large fan, sized at 60 air changes per hour, with a switch outside of the room to actuate it. The intention is for plant staff to turn on this fan to evacuate the space before entering. In addition, there is a second smaller fan which is intended to satisfy code requirements to provide one air change per hour at all times. The electrical plans showed a switch for the smaller fan rather than the larger fan. This item will rectify this issue. Given this is rework for the project (the switch for the smaller fan was already installed), Fishbeck will cover the cost of installing a switch for the larger fan.

ITEM NO. 4

- Move Thermostat in Blower Room
  - The thermostat that controls the exhaust fan in the blower room was located near the air compressor for the facility. The waste heat from the air compressor is causing the thermostat to read too high. This item moves the thermostat away from the compressor. Given this is rework for the project (the switch for the smaller fan was already installed), Fishbeck will cover the cost of installing a switch for the larger fan.

ITEM NO. 5

- Paint Additional Pipe in Existing Well House
  - Some work on the piping was done in Well House 6 to add a blowoff to the facility. While the painter was deployed painting the new piping and valving, City staff requested additional painting of the pipe throughout the well house. This was a cost-effective way to complete some operation and maintenance work given the painter was already deployed with the correct paint.

Impact to Project

The items within this Change Order add cost to the project but are recommended as being necessary to the project. It adds a net total of \$9,375.39 to the project. Fishbeck is offering to pay for \$10,784.19 of the items in this Change Order as this portion is for rework, which would not have been necessary to the project if not omitted in the initial Contract Documents. This will result in a net decrease in total project cost to the City of \$1,408.80.

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 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:	Bulletins 14 Pricing Responses, Change Proposal for Allowance Adjustments, and Change Proposal for Additional Well 6 Pipe Painting

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: Adjustment in Allowances  
Section: 01 21 13 – Cash Allowances

- A. Special Inspections adjusted by \$5,732.25 to allow for services of special inspection on building structure.
- B. Reduce allowance for electrical improvements to \$0.00
- C. Reduce allowance for natural gas improvements to \$200.00
- D. Reduce allowance for Security Improvements to \$9,991.72

**DEDUCT: \$4,076.03**

ITEM NO. 2: Move HMO skid pump suction valves  
Sheet: P301 – Sections

- A. Move HMO pump suction valves to accessible location. Reuse previously installed ball valves, and piping as applicable.

**ADD: \$2,371.83**

ITEM NO. 3: Exhaust Fan Switch Outside of Chlorine Gas Storage Room  
Sheet: E201 – Power Plans  
E503 – Wiring Diagrams

- A. Provide switch outside exterior door to control Exhaust Fan EF-110-1.

**ADD: \$9,228.84**

ITEM NO. 4: Move Thermostat in Blower Room

- A. Move thermostat in Blower Room away from compressors to avoid waste heat.

**ADD: \$1,555.35**

ITEM NO. 5: Paint Additional Pipe in Existing Well House

- A. Additional painting in Well House 6.

**ADD: \$295.40**

CHANGE ORDER  
PAGE 2 OF 2

CHANGE IN CONTRACT PRICE:

CHANGE IN CONTRACT TIMES: N/A

Original Contract Price:

Original Contract time: March 7, 2023

\$17,338,148.00

Substantial Completion: January 16, 2025

Ready for final payment: February 17, 2025

Net Change from Previous Change Orders: 1-14

Net change from previous Change Orders:

\$107,915.03

0 Days

Contract Price prior to this Change Order:

Contract Time prior to this Change Order:

\$17,446,063.03

Substantial Completion: January 30, 2025

Ready for final payment: March 3, 2025

Net increase of this Change Order:

Net change of this Change Order:

\$9,375.39

0 Days

Contract Price with all approved Change Orders:

Contract Time with all approved Change Orders:

\$17,455,438.42

Substantial Completion: January 30, 2025

Ready for final payment: March 3, 2025

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:

July 7, 2025

Date:

July 7, 2025

Date:

\_\_\_\_\_

END OF CHANGE ORDER

BULLETIN  
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
DRAWING REVISION NO.:	B14 – Revised
ISSUED HEREWITH:	
SPECIFICATION SECTIONS:	None
SHEETS:	P003, P102, P103, P202, P301, M601, E201, E503
DISTRIBUTION:	City of Grand Ledge – Kurt Ristow RK Davis, Inc – Peter Elzinga, Rob Kaliniak Fishbeck – Ariana Wade, PE, John Willemin, PE

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.

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:**

Sheet: P003 – Schedules and Details (reissued)  
P103 – Flow Schematic and P&ID (reissued)  
P202 – Enlarged Plans and Isometric (reissued)  
P301 – Sections (reissued)  
E201 – Power Plans (reissued)  
Section: 40 90 00 – Instrumentation and Control for Process Systems (not reissued)

- A. Provide 1/2-inch electrically actuated stainless steel ball valve (437). Model No.: Valworx 5602 with Battery Spring Return system, fail open.
- B. Install 1/2-inch threadolet on air scour main, isolation ball valve, and the actuated valve 437, as indicated on Drawings.
- C. Add Valve 437 to Valve Schedule.
- D. Provide conduit and wiring and update existing PLC programming.
- E. Revise Specification Section 40 90 00 Paragraph 1.7 J. Filter System, 2. c. to include the following:
  10. Normally-open actuated ball valve (437) closes.

BULLETIN  
PAGE 2 OF 3

F. Revise Specification Section 40 90 00 Paragraph 1.7 K. Airwash Blower System to include the following:

5. The airwash header shall be equipped with a 1/2-inch drain and normally-open actuated ball valve (437). Valve 437 shall be called to close (ZCC-437) when either BL-1 or BL-2 is called to run. When the blowers, BL-1 or BL-2, stop running, valve shall be called to open (ZCO-437).

(ADD) DEDUCT: \$ 12,844.52

ITEM NO. 2:

Sheet: P301 – Sections (reissued)

- A. Move HMO pump suction valves to accessible location. Reuse previously installed ball valves, and piping as applicable.

(ADD) DEDUCT: \$ 2,371.83

ITEM NO. 3:

Sheet: P003 – Schedules and Details (reissued)  
P102 – Flow Schematic and P&ID (reissued)  
P202 – Enlarged Plans and Isometric (reissued)  
P301 – Sections (reissued)  
E201 – Power Plans (reissued)  
E503 – Wiring Diagrams (reissued)

Section: 40 90 00 – Instrumentation and Control for Process Systems (not reissued)

- A. Provide magnetic drive sample pump (SP-1). Model No.: Iwaki MD-30RZ
- B. Install sample pump SP-1 and associated raw water sample piping.
- C. Provide conduit and wiring and update existing PLC programming.
- D. Replace Specification Section 40 90 00 Paragraph 1.7 E. 1. with the following:
  1. A magnetic drive sample pump (SP-1) shall deliver a continuous raw water sample (Sample Point SP-1) to the WTP laboratory when wells are in operation. Pump SP-1 shall have a HAND-OFF-AUTO (HOA) selector switch mounted at the manual motor starter in the treatment plant. Control and operation of SP-1 shall be as follows:
    - a. Pump operation shall be as detailed on the pump motor wiring diagram when the HOA switch is placed in HAND position.
    - b. In AUTO mode under SCADA control, control and operation of SP-1 shall be as follows:
      - 1) The pump shall receive a call to start (CS-105) when any well pump supplying the treatment plant (Well Nos. 2, 6, 7 or 8) is in operation.
      - 2) The pump shall receive a call to stop when no well pump supplying the treatment plant (Well Nos. 2, 6, 7 or 8) is in operation.
      - 3) Pump operation shall be able to be controlled via the SCADA system. It shall be possible to start and stop (CS-105) the pump from a SCADA screen. Remote control status shall be indicated on the SCADA Screen (HS-105).

(ADD) DEDUCT: \$ 22,422.37

ITEM NO. 4:

Sheet: E201 – Power Plans (reissued)  
E503 – Wiring Diagrams (reissued)

- A. Provide switch outside exterior door to control Exhaust Fan EF-110-1.

(ADD) DEDUCT: \$ 9,228.84

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PAGE 3 OF 3

ITEM NO. 5:

Sheet: M601 – First Floor Mechanical Piping Plan (reissued)

- A. Move thermostat in Blower Room away from compressors to avoid heat source.

~~ADD~~ DEDUCT: \$ 1,555.35

ITEM NO. 6:

Sheet: M601 – First Floor Mechanical Piping Plan (reissued)

- A. Relocate AHU display interface from base of AHU to first floor.
- B. Provide temperature sensor as was noted on bid set plans.
- C. Add NEMA 3R enclosure around display for protection.

~~ADD~~ DEDUCT: \$ 3,847.45

Contractor: RK Davis, Inc

  
\_\_\_\_\_  
Signature

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

\_\_\_\_\_  
Name and Title of Signatory

06/19/2025

\_\_\_\_\_  
Date

END OF BULLETIN











## Peter Elzinga

---

**From:** Daniel Oosterink <dano@dcd-inc.com>  
**Sent:** Friday, May 30, 2025 11:56 AM  
**To:** Peter Elzinga  
**Subject:** RE: Grand Ledge Iron Removal Plant Bulletin 14R1

Peter,

I would think there would be some touch-up for me on this.  
You should probably plug in an allowance of \$1,000.00 for a days' worth of painting.

Dan Oosterink, LEED® AP  
Vice President  
Dave Cole Decorators, Inc.  
325 Martindale St.  
Sparta, MI 49345  
(616)887-9465  
(616)887-9464 (fax)  
(616)813-6660 (cell)

---

**From:** Peter Elzinga <pelzinga@rkdavis.us>  
**Sent:** Tuesday, May 20, 2025 3:34 PM  
**To:** 'Tracy Sears' <tracys@centennial-electric.com>; Tim Karr <timk@centennial-electric.com>; Doug Holt <doug@franklinholwerda.com>; rfisher@perceptivecontrols.com; Daniel Oosterink <dano@dcd-inc.com>  
**Cc:** Rob Kaliniak <rkaliniak@rkdavis.us>; Mike Flook <mflook@rkdavis.us>  
**Subject:** Grand Ledge Iron Removal Plant Bulletin 14R1

Please see attached Bulletin 14 Revised. Please review and provide a price quote for your affected work. Thank you.

Peter C. Elzinga, P.E.  
**RK Davis, Inc.**  
4457 40<sup>th</sup> St SE  
Kentwood MI 49512  
(616) 456-0059  
[pelzinga@rkdavis.us](mailto:pelzinga@rkdavis.us)

BULLETIN  
PAGE 1 OF 3

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PAGE 2 OF 3

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ADD/DEDUCT: \$ 3030

ITEM NO. 2:

Sheet: P301 – Sections (reissued)

- A. Move HMO pump suction valves to accessible location. Reuse previously installed ball valves, and piping as applicable.

ADD/DEDUCT: \$ 2231

ITEM NO. 3:

Sheet: P003 – Schedules and Details (reissued)  
P102 – Flow Schematic and P&ID (reissued)  
P202 – Enlarged Plans and Isometric (reissued)  
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B. Install sample pump SP-1 and associated raw water sample piping.  
C. Provide conduit and wiring and update existing PLC programming.  
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  - b. In AUTO mode under SCADA control, control and operation of SP-1 shall be as follows:
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    - 2) The pump shall receive a call to stop when no well pump supplying the treatment plant (Well Nos. 2, 6, 7 or 8) is in operation.
    - 3) Pump operation shall be able to be controlled via the SCADA system. It shall be possible to start and stop (CS-105) the pump from a SCADA screen. Remote control status shall be indicated on the SCADA Screen (HS-105).

ADD/DEDUCT: \$ 2207

ITEM NO. 4:

Sheet: E201 – Power Plans (reissued)  
E503 – Wiring Diagrams (reissued)

- A. Provide switch outside exterior door to control Exhaust Fan EF-110-1.

ADD/DEDUCT: \$ By Others

BULLETIN  
PAGE 3 OF 3

ITEM NO. 5:

Sheet: M601 – First Floor Mechanical Piping Plan (reissued)

- A. Move thermostat in Blower Room away from compressors to avoid heat source.

ADD/DEDUCT: \$ By others

ITEM NO. 6:

Sheet: M601 – First Floor Mechanical Piping Plan (reissued)

- A. Relocate AHU display interface from base of AHU to first floor.
- B. Provide temperature sensor as was noted on bid set plans.
- C. Add NEMA 3R enclosure around display for protection.

ADD/DEDUCT: \$ 3,619<sup>00</sup>

Contractor:

RAC

Signature

D. Bennett

Name and Title of Signatory

5/27/25

Date

END OF BULLETIN









# QUOTE



INVOICE DATE	QUOTE NO.
P.O. DATE	P.O. NO.
05/14/25	36246789
	PAGE #
	1

DOCUMENT: Order Quote

CUST #: 90001304

BILL TO:

FRANKLIN HOLMERSDA CO  
PO BOX 9100

CORRESPONDENCE TO:

SUNSOURCE-FLUID PROCESS  
4797 CAMPUS DR

SHIP TO:

WYOMING, MI 49519  
FRANKLIN HOLMERSDA CO  
2509 29TH STREET  
WYOMING, MI 49519

INSTRUCTIONS:

KALAMAZOO, MI 49008

STAGING AREA:

SHIP POINT	VIA	SCHEDULED DATE	TERMS
SUNSOURCE-FLUID PROCESS EQUIP	UPS Ground		net 30

## THANK YOU FOR THE OPPORTUNITY TO PRESENT THE FOLLOWING QUOTE

LINE NO.	PRODUCT AND DESCRIPTION	QUANTITY ORDERED	QUANTITY U/M	UNIT PRICE	PRICE U/M	SHIP DATE	AMOUNT (NET)
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ATTN: DAVE REYNOLD  
PHONE: 616-538-3231  
REF: IWAKI AMERICA MD-30RZ MAGNETIC DRIVE PUMP

1	MD-30RZ-115NL01 IWAKI MAG DRIVE PUMP 5/8" ROSE BARB, 115 VAC IWAKI AMERICA MD-30RZ-115NL01 POLYPROPYLENE, MAGNETIC DRIVE, CENTRIFUGAL PUMP, WITH RIGER HEAD IMPELLER, 5/8" ROSE CONNECTIONS, AND 1/16 HP, 3150 RPM, TENV, UL LISTED MOTOR, 115/1/60. -SHIPMENT: 3-4 WEEKS ARO.	1	each	429.00	each	06/16/25	429.00
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ACCT MGR: PARKER SCOTT, CELL 616-729-3188

1 Lines	Qty Quoted Total	1	Total	429.00
			Frt/Hndlg/Tax to be added at Shipping	429.00
			Order Total	15

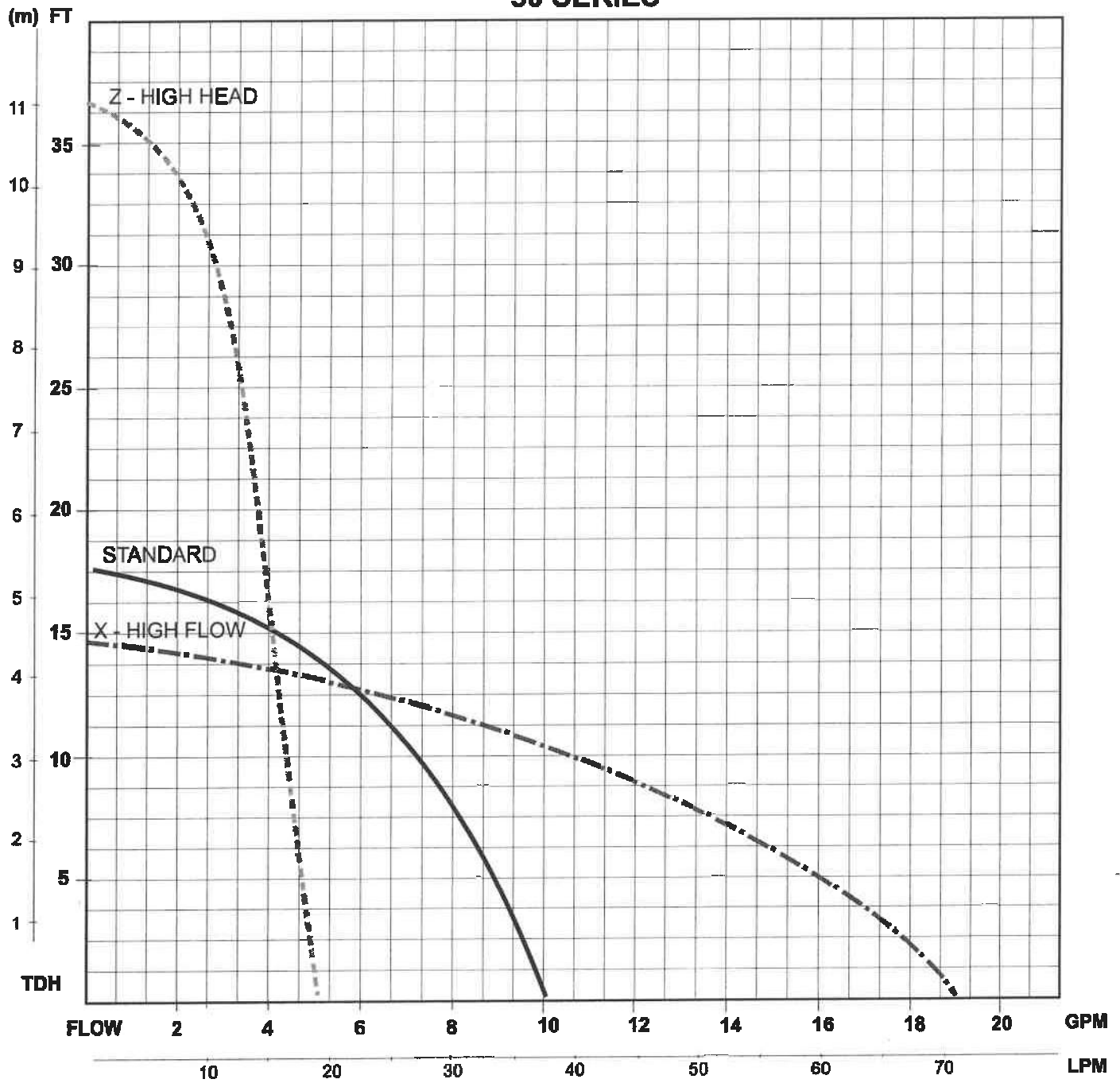
Inc. 3 1/2%

444.00

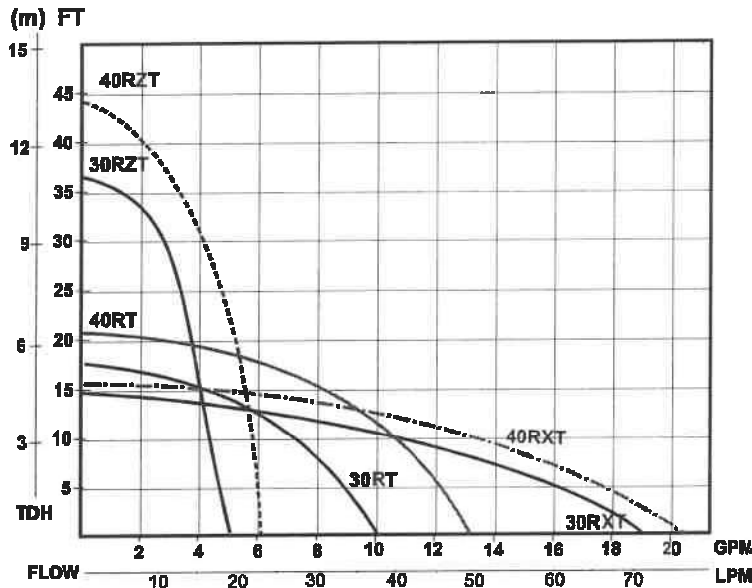
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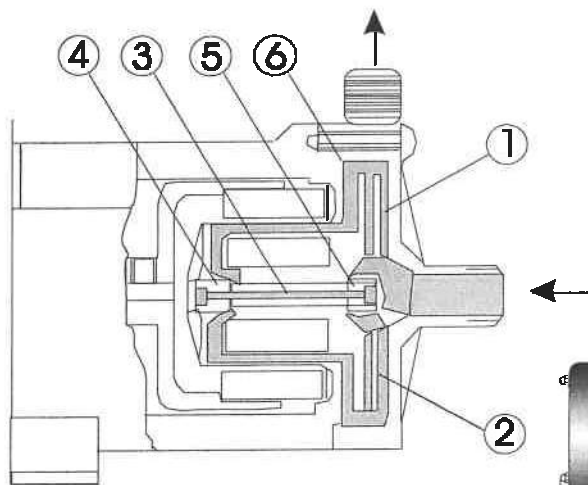
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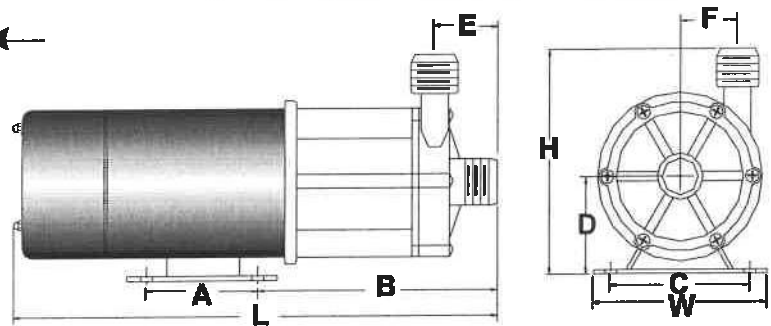
Curve No: IP20276.B	Date: 9/5/2012	Approved:
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- Twin bearing system handles thrust loads, extends service life
- Hollow rotating / Internal cooling circuit reduces bearing temperature
- Compact / Quiet energy efficient design
- Few moving parts for easy maintenance
- Other sizes, voltages & materials available



Part	Material
1 Casing	GFRPP
2 Impeller	GFRPP
3 Spindle	Ceramic
4 Bearing	PTFE
5 Thrust ring	Ceramic or PE
6 O-ring	FKM or EPDM



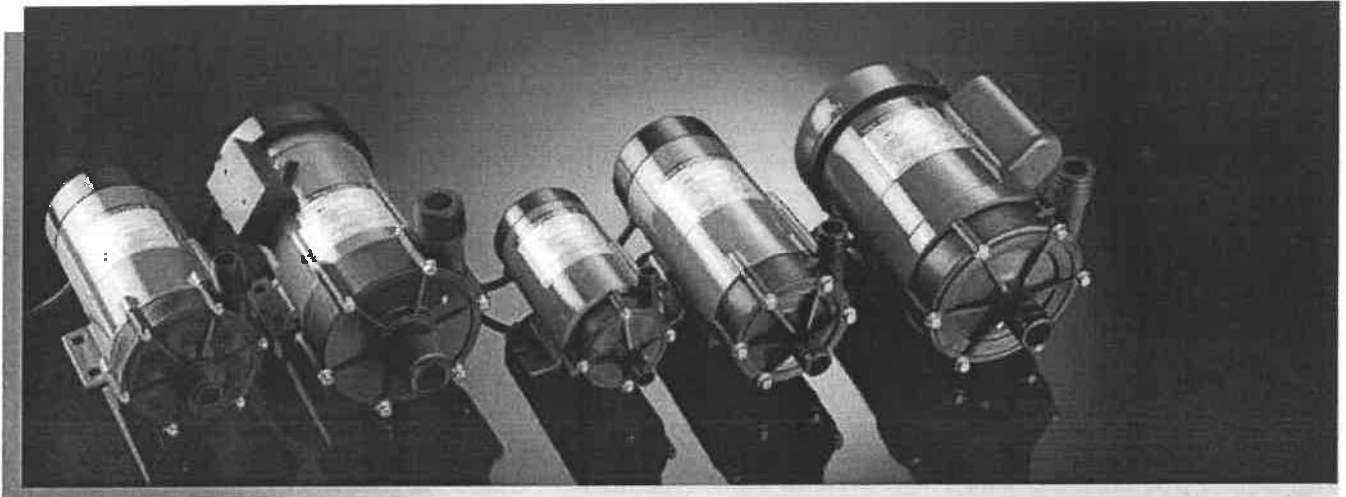
### Dimensions (Inches) and Specifications

Model	W	H	L	A	B	C	D	E	F
MD-30R(T)	4.72	5.12	9.76	1.57	5.87	3.94	2.36	1.89	1.22
MD-30RX(T)	4.72	5.51	10.00	1.57	6.10	3.94	2.36	1.97	40+
MD-30RZ(T)	4.72	5.12	9.05	1.57	5.16	3.94	2.36	1.56	1.53
MD-40R(T)	4.72	5.12	9.85	1.57	5.87	3.94	2.36	1.89	1.22
MD-40RX(T)	4.72	5.51	10.08	1.57	6.10	3.94	2.36	1.97	43+

+ Degrees offset from vertical

Model	CONNECTIONS		MOTOR		AMPS 115V	MAX FLOW GPM	MAX HEAD FT	MAX SYS PRESSURE PSI	S.G.	WEIGHT LBS
	HOSE	NPTM	OUTPUT (HP)	SPEED (RPM)						
MD-30R(T)	3/4	3/4	1/16	3150	1.0	10.0	17.7	11.6	1.3	7.7
MD-30RX(T)	1	1	1/16	3150	1.1	19.0	13.5	8.54	1.1	8.82
MD-30RZ(T)	5/8	3/4	1/16	3100	1.1	4.50	36.1	24.18	1.0	7.70
MD-40R(T)	3/4	3/4	1/12	3200	1.3	13.7	21.3	14.22	1.1	8.60
MD-40RX(T)	1	1	1/12	3200	1.2	22.4	15.4	9.95	1.1	8.60

## Magnetic Drive Pump



Iwaki America, the world leader in small magnetically coupled centrifugal pump technology, offers the premier line of non-metallic centrifugal pumps.

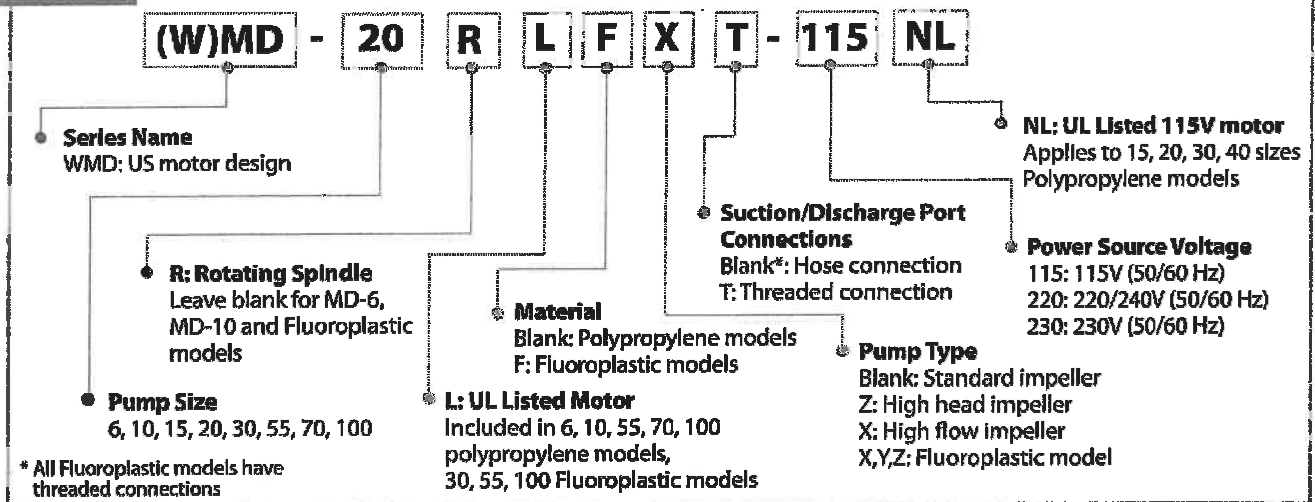
- **Excellent chemical compatibility** - Manufactured from the most corrosion-resistant materials including Polypropylene, ETFE, SiC, or Alumina Ceramic to handle your most aggressive chemicals and high purity applications.
- **Motor options** - Choice of premium, high efficiency motors in AC and DC voltages.
- **Multiple impeller options** - Choose from enclosed, open or semi-open impellers to ensure a perfect hydraulic fit for your application.
- **Dual bearing system** - Leads to longer pump life.
- **Rotating spindle** - Reduces friction and heat generation.
- **Dynamically balanced drive magnet** - Reduces unbalanced loads on the motor shaft leading to longer motor life.
- **Unique internal cooling loop** - Allows for lower pump operating temperature.
- **Impeller balance holes** - Minimize axial thrust for better hydraulics.



# MD

## series

### Model Code



### Specifications

\* Varies with motor

Polypropylene Model	Connections		Motor Output (HP)	Motor Speed (RPM)	Current (Amps)	Max Flow (GPM)	Max Head (Ft)	Max Sys. Pressure (PSI)	Specific Gravity	Weight (Lbs)
	Hose	NPT								
MD-6	1/2	---	1/250	3100	0.25	2.3	4.5	2.80	1.2	1.8
MD-10	1/2	---	1/125	2900	0.40	3.1	6.8	4.30	1.1	1.6
MD-15R(T)	1/2	1/2	1/75	3100	0.29	5.0	11.1	7.20	1.3	3.5
WMD-15R(T)	1/2	1/2	1/38	3100	0.82	5.0	11.1	7.20	1.3	6.0
MD-20RT(T)	5/8	3/4	1/38	3100	0.48	8.2	14.1	9.95	1.1	4.4
WMD-20R(T)	5/8	3/4	1/38	3100	0.48	8.2	14.1	9.95	1.1	7.0
MD-20RX(T)	1	1	1/38	3100	0.50	13.7	8.2	5.69	1.3	4.4
WMD-20RX	1	1	1/38	3100	0.50	13.7	8.2	5.69	1.3	7.0
MD-20RZ	5/8	3/4	1/38	3100	0.53	2.9	22.6	14.22	1.1	4.4
WMD-20RZ	5/8	3/4	1/38	3100	0.53	2.9	22.6	14.22	1.1	7.0
MD-30R	3/4	3/4	1/16	3150	0.80	10.0	17.7	11.60	1.3	7.7
WMD-30R	3/4	3/4	1/16	3150	1.00	10.0	17.7	11.60	1.3	9.0
MD-30RX	1	1	1/16	3150	1.10	19.0	13.5	8.54	1.1	7.7
WMD-30RX	1	1	1/16	3150	1.00	19.0	13.5	8.54	1.1	9.0
MD-30RZ	5/8	3/4	1/16	3150	1.10	4.5	36.1	24.18	1.0	7.7
WMD-30RZ	5/8	3/4	1/16	3150	1.00	4.5	36.1	24.20	1.0	9.0
MD-40R	3/4	3/4	1/12	3200	1.30	13.7	21.3	14.22	1.1	8.6
WMD-40R	3/4	3/4	1/12	3200	1.90	13.7	21.3	14.22	1.1	10.0
MD-40RX	1	1	1/12	3200	1.20	22.4	15.4	9.95	1.1	8.6
WMD-40RX	1	1	1/12	3200	1.90	22.4	15.4	9.95	1.1	10.0
MD-55R	1	1	1/8	3400	1.60	18.4	26.9	17.06	1.2	10.1
MD-70R	1	1	1/4	3400	2.80	25.6	31.8	21.33	1.0	13.2
MD-70RZ	3/4	3/4	2/7	3400	3.80	11.4	66.6	42.70	1.0	13.2
MD-100R	1	1	1/3	3300	3.40	35.6	39.0	25.60	1.2	18.7
WMD-100R	1	1	1/3	3400	*	35.6	39.0	25.60	1.2	*

Fluoroplastic Model	Connections		Motor Output (HP)	Motor Speed (RPM)	Current (Amps)	Max Flow (GPM)	Max Head (Ft)	Max Sys. Pressure (PSI)	Specific Gravity	Weight (Lbs)
	Hose	NPT								
WMD-30FX	---	1/2	1/16	3200	0.9	3.2	35.2	17.0	1.3 (1.5)	9.0
WMD-30FY	---	1/2	1/16	3200	0.9	3.2	26.0	17.0	1.5 (1.8)	9.0
WMD-30FZ	---	1/2	1/16	3200	0.9	2.6	24.0	21.3	1.9 (2.1)	9.0
MD-55FY	---	1	1/8	3300	1.9	17.1	25.6	21.3	1.3 (1.5)	11.9
MD-55FZ	---	1	1/8	3300	1.6	13.0	19.0	31.2	2.0 (2.2)	11.9
WMD-100FY	---	1	1/3	3450	*	36.0	38.0	31.2	1.3 (1.6)	*
MD-100FY	---	1	1/3	3300	3.4	35.7	37.7	31.2	1.3 (1.6)	18.7
WMD-100FZ	---	1	1/3	3450	*	28.0	27.2	31.2	1.9 (2.2)	*
MD-100FZ	---	1	1/3	3300	3.4	28.0	27.2	31.2	1.9 (2.2)	18.7

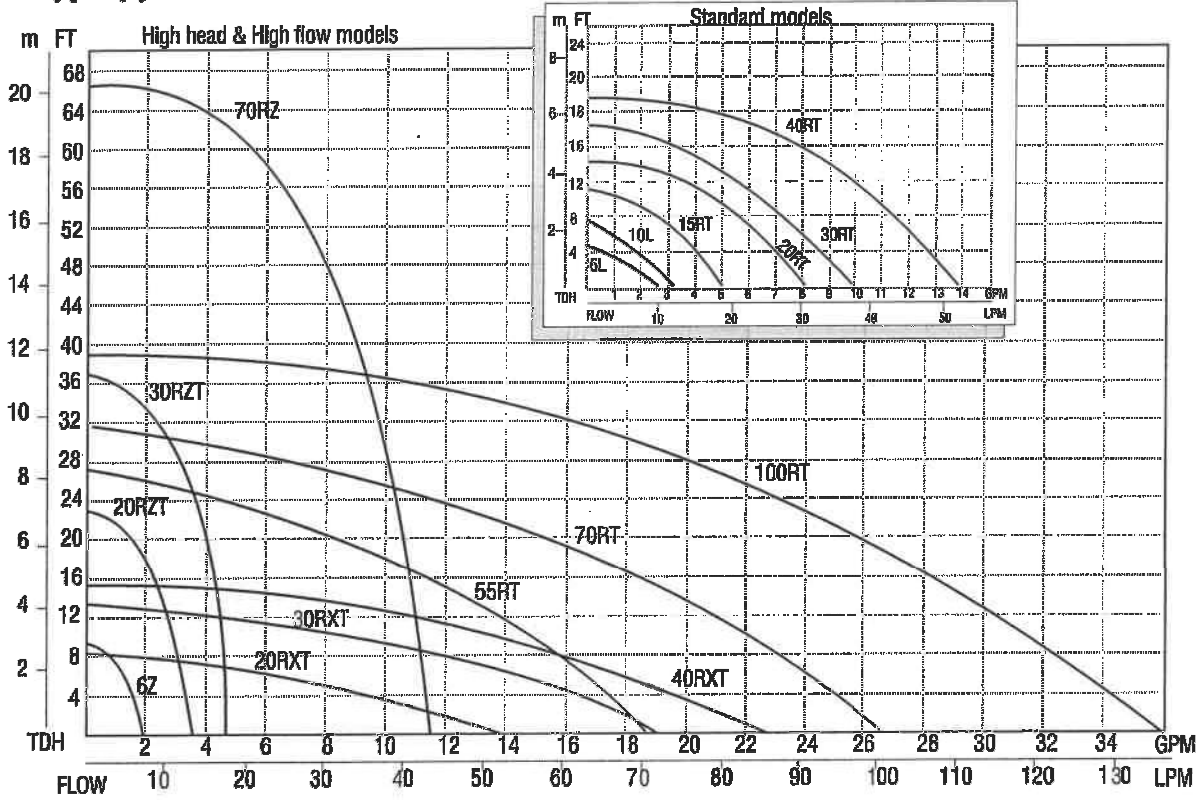
Pumps with "T" in the model number have NPT connections, models without "T" have hose barb connections.

GFRPP pumps rated to 80°C max. liquid temperature.

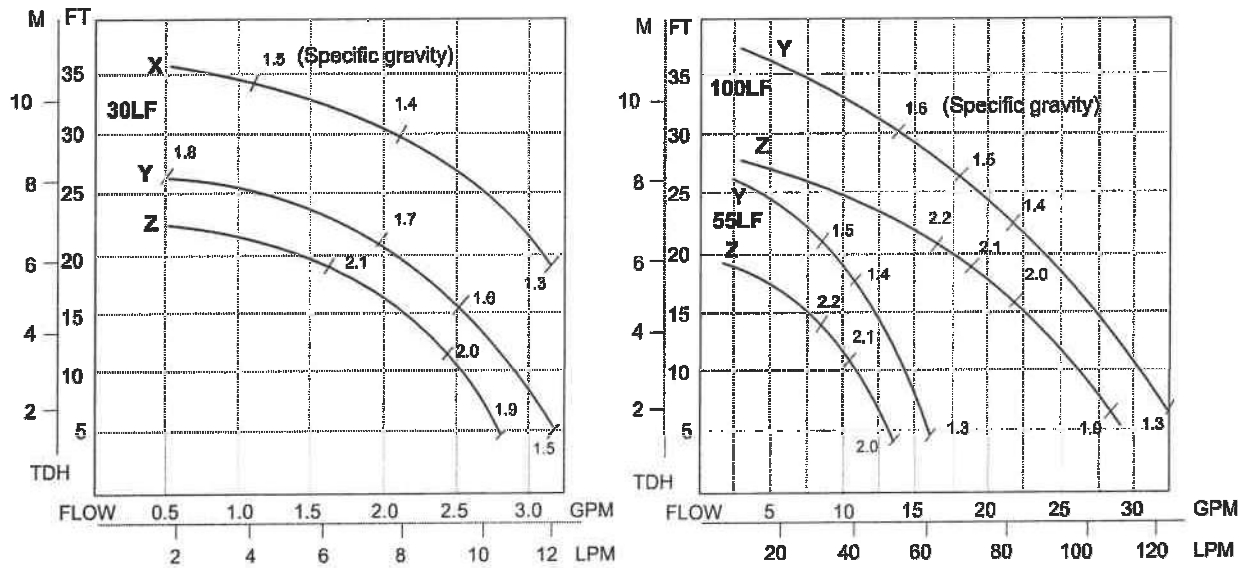
Metric threads available upon request. Please call Iwaki America for details.

Consult factory for available DC motor options.

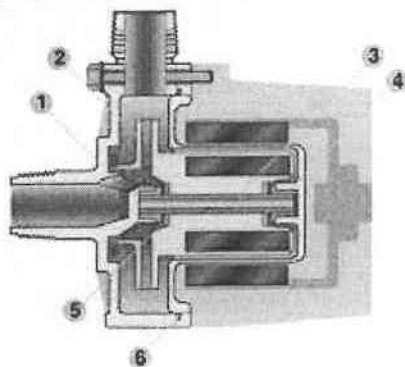
### Polypropylene Models



### Fluoroplastic Models



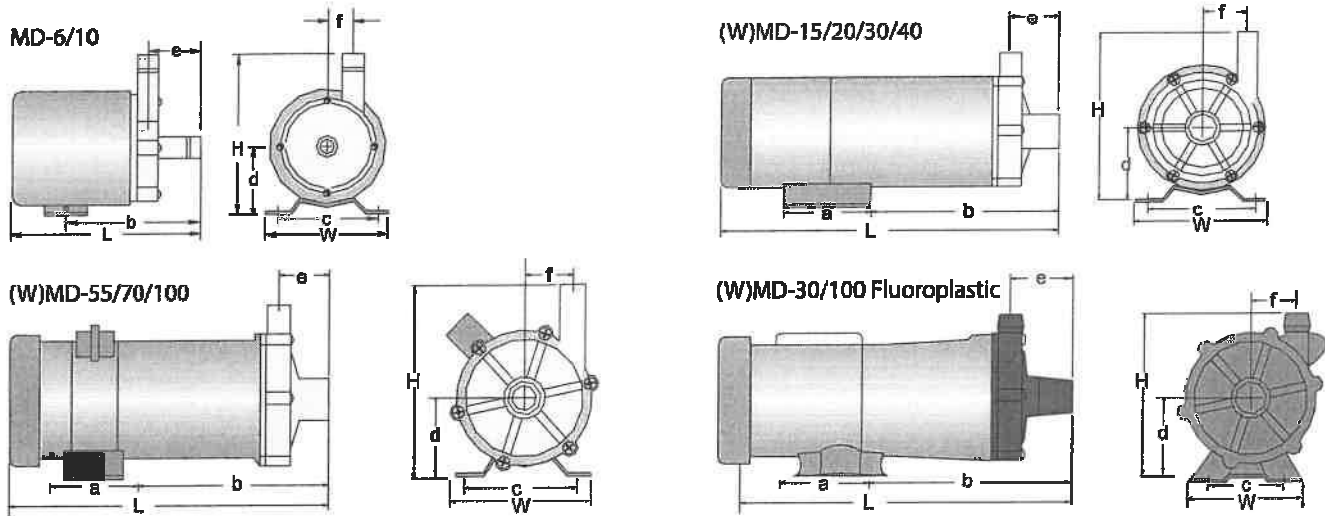
### Wet End Materials



Part	Polypropylene	Fluoroplastic
1 Casing	GFRPP	CFRETFE
2 Impeller	GFRPP or CFRPP	CFRETFE
3 Spindle	Alumina Ceramic	Silicon carbide
4 Bearing	PTFE or PPS	Silicon carbide
5 Thrust ring	Alumina Ceramic or PE	Silicon carbide
6 O-ring*	FKM or EPDM	FKM

\* Other materials available upon request

## Dimensions



Model	Connections		W	H	L	a	b	c	d	e	f
	Hose	NPTM									
<b>POLYPROPYLENE (MD-115V shown)</b>											
MD-6/10	1/2	---	2.91	3.62	4.09	1.18	2.87	2.36	1.77	1.22	0.67
WMD-15R(T)	1/2	1/2	3.50	4.26	9.46	2.37	4.15	2.50	1.94	1.52	0.85
MD-15R(T)	1/2	1/2	3.74	4.39	7.05	1.97	4.59	3.35	2.17	1.52	0.85
WMD-20R(T)	5/8	3/4	3.50	4.35	9.70	2.37	4.39	2.50	1.94	1.30	1.12
MD-20R(T)	5/8	3/4	4.17	4.19	7.99	1.73	4.05	3.54	1.77	1.52	1.12
WMD-20RX(T)	1	1	3.50	4.95	10.37	2.37	5.06	2.50	1.94	1.83	40°
MD-20RX(T)	1	1	4.17	4.75	8.86	1.73	4.45	3.54	1.74	1.83	40°
WMD-20RZ(T)	5/8	3/4	3.50	4.70	9.98	2.37	4.67	2.50	1.94	1.56	1.52
MD-20RZ(T)	5/8	3/4	4.17	4.92	8.31	1.73	4.17	3.54	2.17	1.56	1.52
WMD-30R(T)	3/4	3/4	3.50	4.70	11.65	2.37	5.72	2.50	1.94	1.89	1.22
MD-30R(T)	3/4	3/4	4.72	5.12	9.76	1.57	5.87	3.94	2.36	1.89	1.22
WMD-30RX(T)	1	1	3.50	5.09	11.89	2.37	5.96	2.50	1.94	1.97	40°
MD-30RX(T)	1	1	4.72	5.51	10.00	1.57	6.10	3.94	2.36	1.97	40°
WMD-30RZ(T)	5/8	3/4	3.50	4.70	10.97	2.37	5.04	2.50	1.94	1.56	1.53
MD-30RZ(T)	5/8	3/4	4.72	5.12	9.05	1.57	5.16	3.94	2.36	1.56	1.53
WMD-40R(T)	3/4	3/4	4.38	4.84	11.34	3.09	6.66	3.37	2.08	1.89	1.22
MD-40R(T)	3/4	3/4	4.72	5.12	9.85	1.57	5.87	3.94	2.36	1.89	1.22
WMD-40RX(T)	1	1	4.38	5.23	11.30	3.09	7.02	3.37	2.08	1.97	43°
MD-40RX(T)	1	1	4.72	5.51	10.08	1.57	6.10	3.94	2.36	1.97	43°
MD-55R (T)	1	1	4.72	6.10	10.77	1.57	7.05	3.94	2.36	2.42	1.57
MD-70R(T)	1	1	5.83	6.11	10.18	2.76	5.71	4.25	2.56	2.07	1.70
MD-70RZ (T)	3/4	3/4	5.83	6.50	9.72	2.76	5.24	4.25	2.56	1.65	1.87
MD-100R(T)	1	1	6.14	6.89	12.67	2.76	6.38	4.33	2.95	2.55	1.71
WMD-100R(T)	1	1	*	7.44	*	3.00	10.43	4.87	3.50	2.55	1.71
<b>FLUOROPLASTIC (MD-115V shown)</b>											
WMD-30F(X,Y,Z)	---	1/2	3.50	4.69	11.00	2.37	5.07	2.50	1.94	1.54	1.52
MD-30(X,Y,Z)	---	1/2	4.72	5.12	9.08	1.57	6.77	3.94	2.36	1.53	1.52
MD-55F (Y,Z)	---	1	4.72	6.11	10.53	1.57	6.61	3.94	2.56	2.30	1.56
WMD-100F (Y,Z)	---	1	*	6.80	*	3.00	12.06	4.88	3.56	2.55	1.71
MD-100F (Y,Z)	---	1	6.14	6.89	12.67	2.76	6.38	4.33	2.95	2.55	1.71

\* Varies with motor manufacturer



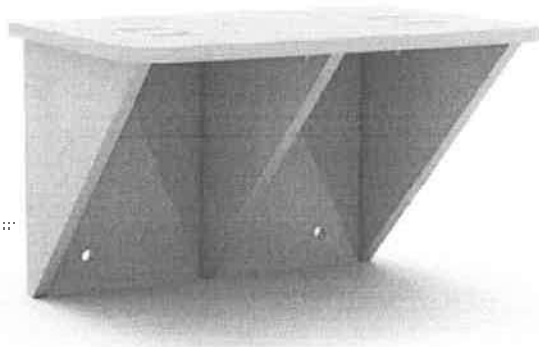
IALT00034.H Sept 2014

[www.IwakiAmerica.com](http://www.IwakiAmerica.com) • [www.IwakiCustomPumps.com](http://www.IwakiCustomPumps.com)



[← Back to overview](#)

## Blue-White® Pump Shelf, HDPE, 150-lb Capacity, KIT- PSM



+ Hover to zoom | Click to enlarge

Item **30530**  
number

Net weight **2**

Condition **New**

**\$309.<sup>52</sup>** price per each  
excl. tax

In Stock

[Add to cart](#)

[Add to Order Template](#)

[Add to wish list](#)

**Need Help? Call 800-548-1234**

The optional pump shelf allows easy wall mounting of all A2, A3 and A4 Blue-White pumps and improved ergonomics. Shelves are made of chemical-resistant HDPE and include four 3/8" Dia x 2-3/4" L stainless steel anchor bolts.

### Documents

[› Specification](#)

# Engineering Specifications

KIT-PSM

## General Operation

### Compatible with Pump Models

A1, A2, A3, A4 Flex-Flo® Peristaltic Pumps

M1, M2, M3, M4 Flex-Flo® Peristaltic Pumps

C2, C3, CD1, CD3 Chem-Feed® Diaphragm Pumps

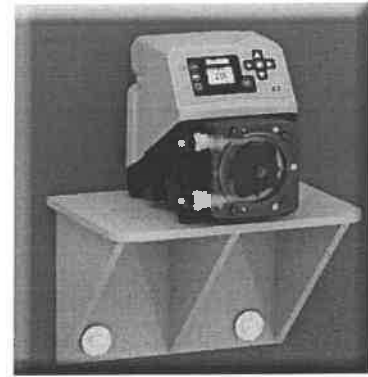
MC2, MC3, MD1, MD3 Chem-Feed® Diaphragm Pumps

### Max Capacity

150 lbs (68 kg)

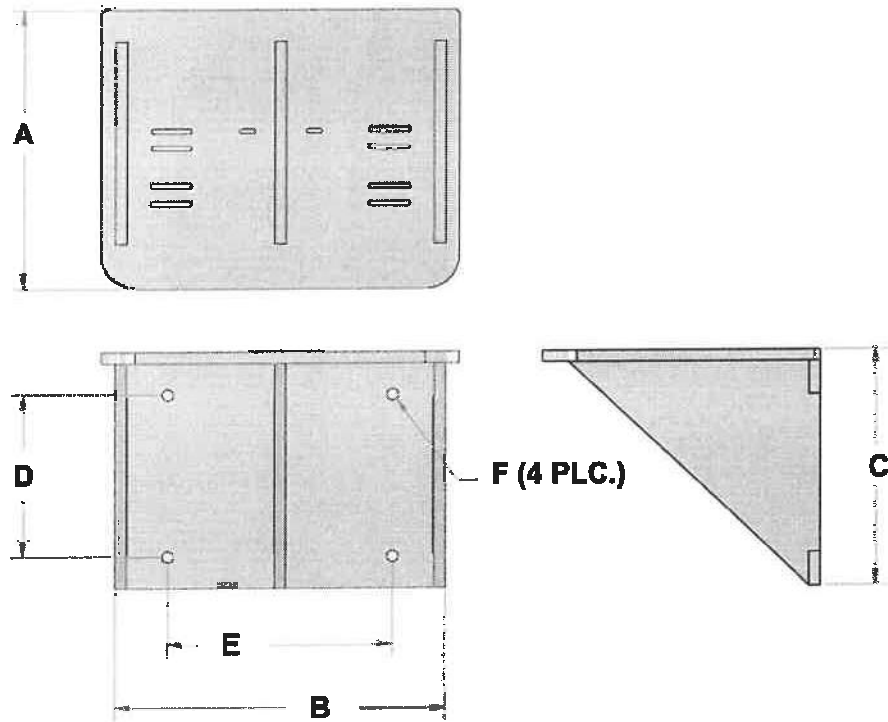
### Mounting Hardware

Four (4) 3/8" dia. x 2-3/4" long stainless steel anchor bolts



## Dimensions

Dim	Inch	cm
A	12.38"	31.4
B	14.75"	37.5
C	10.47"	26.6
D	7.20"	18.3
E	10.10"	25.7
F	0.5" dia.	1.3 dia.



P.N. 85000-190 PSM REV 0.9 20220912

5300 Business Drive, Huntington Beach, CA 92649

TEL 714-893-8529 | FAX 714-894-9492 | [www.blue-white.com](http://www.blue-white.com) | [sales@blue-white.com](mailto:sales@blue-white.com)

ISO 9001:2015  
CERTIFIED



MADE IN THE  
USA

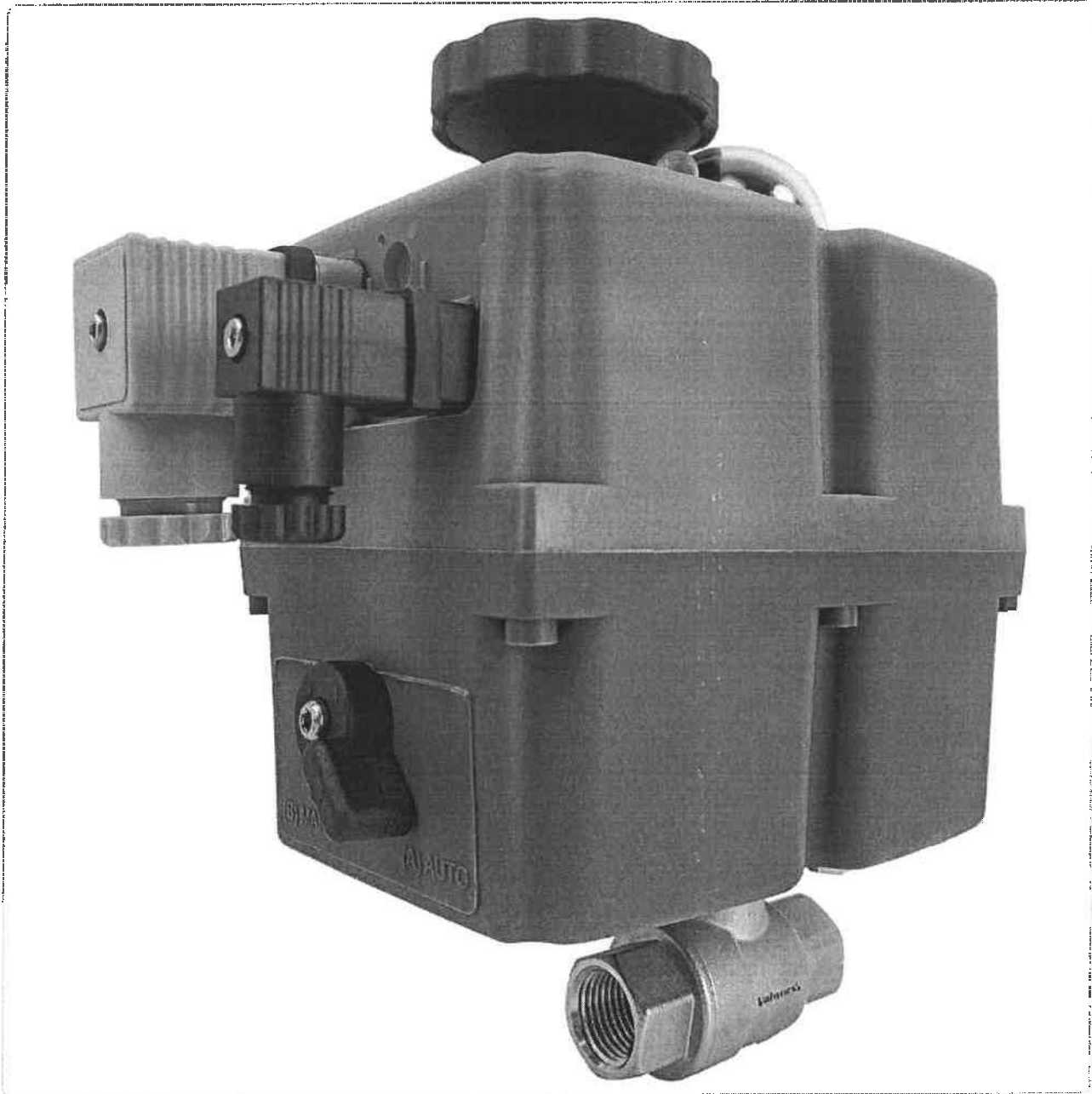
1-800-511-0100

sales@valworx.com

Keyword/Item#



[Home](#) / [Stainless](#) / [Stainless Steel Ball Valves](#) / [Electric Actuated Stainless Ball Valves - Multi-Voltage](#) / [1/2" Electric Actuated Stainless Ball Valve 24-240V](#)



## 1/2" Electric Actuated Stainless Ball Valve 24-240V

Stock #: 560204H

Series: 5602

List Price: \$637.75

Price: **\$510.20**

Buy 3 or more for **\$459.18** each

Usually Ships: **Same Day**

Quantity:

[ADD TO CART](#)

[BUY NOW](#)

<a href="#">Description</a>	<a href="#">Specifications</a>	<a href="#">Accessories</a>	<a href="#">Data Sheets</a>	<a href="#">CAD</a>	<a href="#">Video</a>	<a href="#">Repair Parts</a>
-----------------------------	--------------------------------	-----------------------------	-----------------------------	---------------------	-----------------------	------------------------------

Valworx 560204H electric actuated 2-piece stainless steel ball valves for on-off control of water, air, oil, and other media compatible with the materials of construction. Standard unit is power-to-open and power to close, stays in last known position with loss of power. On receipt of a continuous voltage signal, the motor runs and via a flat gear system rotates the ball valve. The motor is stopped by internal cams striking micro switches. On receipt of a reversing continuous signal, the motor turns in the opposite direction reversing the valve position. High temperature valve mounting kit available for extended temperature range or wall mounting applications.

#### Ball Valve Standard Features

- 1000 PSI working pressure (see P/T chart)
- Direct mounting valve per ISO5211
- Full port for unrestricted flow
- 316 stainless steel body, ball and stem
- Blow out proof stem
- RTFE ball seats extend cycle life
- Triple PTFE/Viton stem seal design, live loaded

#### Electric Actuator Standard Features

- Highly visible LED light gives continuous actuator status indication
- Multi-voltage capable with auto-voltage sensing
- Electronic torque limiter - protects against valve jams
- Anti-condensation heater
- Manual override with visual valve position indicator
- All electrical connections via external DIN plugs (included) - no need to remove cover
- Two dry contact limit switches used to confirm open/closed valve position
- Rugged IP67 weatherproof housing, CE marked

Options (see Accessories tab)

### Commonly Purchased Together



**1/2" Stainless Spring Check Valve, NPT**

Stock #: 549804

1-800-511-0100

sales@valworx.com

Keyword/Item#



[Home](#) / [Actuators](#) / [Electric Actuator Accessories](#) / [Electric Actuator Options](#) / [5610E BSR-NC Failsafe Battery Kit - Installed](#)



🔍 Click to zoom

## 5610E BSR-NC Failsafe Battery Kit - Installed

Stock #: 561104E

Series: 5611

List Price: \$528.45

Price: **\$422.76**

Buy 3 or more for **\$380.48** each

Usually Ships: **Same Day**

Quantity:

[ADD TO CART](#)

[BUY NOW](#)

Description

[Data Sheets](#)

[Video](#)

The 561104E BSR-Spring Return Fail Closed kit is available as a factory pre-installed option for Valworx 5610 & 5615 series electric actuators. The BSR kit will work with both on-off models and actuators with DPS positioners. The battery failsafe system provides an alternative source of power to drive the actuator to the Normally Closed position in the event of an external power failure. The industrial quality battery is constantly trickle charged during normal operation to assure maximum charge when required. The battery kit is installed under the actuator cover. No separate modules or boxes are required.

The installed BSR kit will provide enough power to move the actuator/valve to a failsafe position with loss of external power. The actuator operates in the normal power open and power close mode while external power is available. Internal circuitry monitors the incoming main power and automatically switches within a few seconds to the battery backup with loss of external power. The battery will then provide enough power to move the actuator to a failsafe position.

In the normal mode of operation, an LED status light located on top of the actuator cover will be continuously lit. With a loss of power, the LED status light will blink slowly. When external power is restored, conditional that the actuator control signal remained unchanged, the actuator will reset to the position it saw at the time of the main power failure.

In many applications, the BSR battery spring return function tends to be a very economical option when compared to the alternate true mechanical spring return actuator. Valworx actuators with the BSR option are much smaller, lighter and less expensive.

**The BSR option returns the valve to a fail-safe position in the event of a loss of electrical power. It is not intended and should not be used for normal operation.**

Commonly Purchased Together



**Electric Actuator 177 in.lbs (20Nm), 24-240V**

Stock #: 561020E

Usually Ships: Same Day

Price: **\$415.66**

Quantity:

[Add to Cart](#)



**Electric Actuator 752 in.lbs (85Nm), 24-240V**

Stock #: 561085E

Usually Ships: Same Day

Price: **\$909.14**

Quantity:

[Add to Cart](#)

5/22/2025

Project: Grand Ledge Iron Removal  
Location: Grand Ledge, MI  
Project Number: 22-1082C

Control Solutions, Inc. to provide labor and materials necessary to provide temperature controls per Bulletin #14 Item #6.

**Scope of Work:**

- Relocation of zone temperature sensor. Replacement of Trane provided zone temperature sensor with a blank plate 10k Type II sensor considering conditions of the space the sensor will be located in.
- Relocation of Trane display down to proposed location on the first floor. NEMA 3R panel included to protect display.

**Including:**

- Pertinent Input/Output Sensors
- Installation Labor and Material
- System Start-up and Check-out of CSI provided Controls

**Exclusions:**

The following are not included in the scope of this proposal unless otherwise agreed upon:

- All low voltage installation labor and material by Control Solutions, Inc.
- No allowance to provide fire, smoke or control dampers unless otherwise noted.
- No allowance to install control valves or dampers.
- No allowance to provide VFDs unless otherwise noted.
- This proposal may be withdrawn/adjusted if not accepted within 60 days of proposal date.

**Total Sum to Complete the Scope of Work Above: \$3,265.00**

This price includes all materials, labor, and equipment necessary for the successful completion of the project.

**Terms and Conditions:**

- All work will be performed in compliance with local building codes and industry standards.



**CONTROL  
SOLUTIONS INC**  
West Michigan

# PROPOSAL

## BUILDING AUTOMATION

- Control Solutions Inc. will not be held liable for delays caused by unforeseen circumstances, such as material shortages or site inaccessibility.
- A change order will be issued for any modifications to the scope of work.

**Authorization:**

By signing below, the client authorizes Control Solutions Inc. to proceed with the scope of work as outlined in this proposal.

**Client Name:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Submitted by:**

Justin Tickle  
Project Manager  
Control Solutions, Inc.

O 517.543.9900  
F 517.543.9911



PO BOX 490  
POTTERVILLE, MI 48876

6/6/2025

RK Davis  
ATTN: Peter Elzinga  
4457 40<sup>th</sup> St SE  
Kentwood, MI 49512

RE: Grand Ledge Iron Removal Plant- Bulletin 14 Quote

Dear Peter Elzinga,

Centennial Electric, LLC, is pleased to quote you for the above-mentioned project based off the Bulletin 14 summary and drawings issued 5/20/2025. We have included the following:

**Item No. 1**

**Included**

- Conduit and wire from CP-FILT3 to Valve 437
- (2) Interposing relays inside of CP-FILT3
- Update existing PLC programming
- Bonds

**Excluded**

- Overtime and shift premiums
- Painting and patching of block
- Painting of conduit

**Total \$8,289.00**

**Item No. 3**

**Included**

- Conduit and wire from CP-Main to CP-FILT1 ahead of UPS for SP-1 power
- Provide and install manual motor starter for SP-1
- Conduit and wire from CP-FILT1 to SP-1
- Update PLC programming for new sample pump SP-1
- Bonds

**Excluded**

- Overtime and shift premiums
- Painting and patching of block
- Painting of conduit

**Total \$18,384.00**

O 517.543.9900  
F 517.543.9911



PO BOX 490  
POTTERVILLE, MI 48876

**Item No. 4**

**Included**

- Conduit and wire between EF-110-1, On/Off switch, and combination motor starter
- On/off switch located on the exterior of Chlorine Gas Storage Room 110
- Nema 3R weatherproof box and cover
- Bonds

**Excluded**

- Overtime and shift premiums
- Painting and patching of block
- Painting of conduit

**Total \$8,418.00**

Please do not hesitate to contact me with any questions.

Sincerely,

Tracy Sears  
Project Manager

O 517.543.9900  
F 517.543.9911



PO BOX 490  
POTTERVILLE, MI 48876

6/18/2025

RK Davis  
ATTN: Peter Elzinga  
4457 40<sup>th</sup> St SE  
Kentwood, MI 49512

RE: Grand Ledge Iron Removal Plant- Bulletin 14 Item 5 Quote

Dear Peter Elzinga,

Centennial Electric, LLC, is pleased to quote you for the above-mentioned project based off the Bulletin 14 summary and drawings issued 5/20/2025. We have included the following:

**Item No. 5**

**Included**

- Remove existing thermostat
- Reroute conduit and wire to new location
- Reinstall the thermostat in new location

**Excluded**

- Overtime and shift premiums
- Painting and patching of block
- Painting of conduit

**Total \$1,164.00**

Several suppliers are noting the potential for tariffs on imported goods. The costs for tariffs on goods needed to supply materials to this project are not included in our proposal

Please do not hesitate to contact me with any questions.

Sincerely,

Tracy Sears  
Project Manager

BULLETIN  
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
DRAWING REVISION NO.:	B14 – Revised
ISSUED HEREWITH:	<b>Centennial Electric LLC</b>
SPECIFICATION SECTIONS:	None
SHEETS:	P003, P102, P103, P202, P301, M601, E201, E503
DISTRIBUTION:	City of Grand Ledge – Kurt Ristow RK Davis, Inc – Peter Elzinga, Rob Kaliniak Fishbeck – Ariana Wade, PE, John Willemin, PE

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.

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:**

Sheet: P003 – Schedules and Details (reissued)  
P103 – Flow Schematic and P&ID (reissued)  
P202 – Enlarged Plans and Isometric (reissued)  
P301 – Sections (reissued)  
E201 – Power Plans (reissued)  
Section: 40 90 00 – Instrumentation and Control for Process Systems (not reissued)

- A. Provide 1/2-inch electrically actuated stainless steel ball valve (437). Model No.: Valworx 5602 with Battery Spring Return system, fail open.
- B. Install 1/2-inch threadolet on air scour main, isolation ball valve, and the actuated valve 437, as indicated on Drawings.
- C. Add Valve 437 to Valve Schedule.
- D. Provide conduit and wiring and update existing PLC programming.
- E. Revise Specification Section 40 90 00 Paragraph 1.7 J. Filter System, 2. c. to include the following:
  - 10. Normally-open actuated ball valve (437) closes.

BULLETIN  
PAGE 2 OF 3

F. Revise Specification Section 40 90 00 Paragraph 1.7 K. Airwash Blower System to include the following:

5. The airwash header shall be equipped with a 1/2-inch drain and normally-open actuated ball valve (437). Valve 437 shall be called to close (ZCC-437) when either BL-1 or BL-2 is called to run. When the blowers, BL-1 or BL-2, stop running, valve shall be called to open (ZCO-437).

ADD/DEDUCT: \$ 8,289.00

ITEM NO. 2:

Sheet: P301 – Sections (reissued)

- A. Move HMO pump suction valves to accessible location. Reuse previously installed ball valves, and piping as applicable.

ADD/DEDUCT: \$ N/A

ITEM NO. 3:

Sheet: P003 – Schedules and Details (reissued)  
P102 – Flow Schematic and P&ID (reissued)  
P202 – Enlarged Plans and Isometric (reissued)  
P301 – Sections (reissued)  
E201 – Power Plans (reissued)  
E503 – Wiring Diagrams (reissued)

Section: 40 90 00 – Instrumentation and Control for Process Systems (not reissued)

- A. Provide magnetic drive sample pump (SP-1). Model No.: Iwaki MD-30RZ  
B. Install sample pump SP-1 and associated raw water sample piping.  
C. Provide conduit and wiring and update existing PLC programming.  
D. Replace Specification Section 40 90 00 Paragraph 1.7 E. 1. with the following:
1. A magnetic drive sample pump (SP-1) shall deliver a continuous raw water sample (Sample Point SP-1) to the WTP laboratory when wells are in operation. Pump SP-1 shall have a HAND-OFF-AUTO (HOA) selector switch mounted at the manual motor starter in the treatment plant. Control and operation of SP-1 shall be as follows:
    - a. Pump operation shall be as detailed on the pump motor wiring diagram when the HOA switch is placed in HAND position.
    - b. In AUTO mode under SCADA control, control and operation of SP-1 shall be as follows:
      - 1) The pump shall receive a call to start (CS-105) when any well pump supplying the treatment plant (Well Nos. 2, 6, 7 or 8) is in operation.
      - 2) The pump shall receive a call to stop when no well pump supplying the treatment plant (Well Nos. 2, 6, 7 or 8) is in operation.
      - 3) Pump operation shall be able to be controlled via the SCADA system. It shall be possible to start and stop (CS-105) the pump from a SCADA screen. Remote control status shall be indicated on the SCADA Screen (HS-105).

ADD/DEDUCT: \$ 18,384.00

ITEM NO. 4:

Sheet: E201 – Power Plans (reissued)  
E503 – Wiring Diagrams (reissued)

- A. Provide switch outside exterior door to control Exhaust Fan EF-110-1.

ADD/DEDUCT: \$ 8,418.00

BULLETIN  
PAGE 3 OF 3

ITEM NO. 5:

Sheet: M601 – First Floor Mechanical Piping Plan (reissued)

- A. Move thermostat in Blower Room away from compressors to avoid heat source.

ADD/DEDUCT: \$ 1,164.00

ITEM NO. 6:

Sheet: M601 – First Floor Mechanical Piping Plan (reissued)

- A. Relocate AHU display interface from base of AHU to first floor.
- B. Provide temperature sensor as was noted on bid set plans.
- C. Add NEMA 3R enclosure around display for protection.

ADD/DEDUCT: \$ N/A

Contractor:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name and Title of Signatory

\_\_\_\_\_  
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 #14 Item 1	\$1,176.82	100.00%	\$1,176.82	31.03	100.00%	31.03

### Top Sheet

Raw Cost	\$7,081.96	Sales per Month	\$0.00
Tax	\$70.61	Return per Month	\$0.00
Raw Cost with Tax	\$7,152.56	Price per Square Foot	\$0.00
Overhead	\$1,062.29	Hours per Square Foot	0.00
Profit	\$0.00	Square Feet	0.00
Total Return Amount	\$1,062.29	Job Months	0.00
Total Return %	12.82%	Hours per Week	0.00
Remaining Labor Hours	0.00	Average Hourly Rate w/ Burden	116.17
Price	\$8,214.86	Workers per Day	0.00
Bond	\$73.93	Total Hours	31.03
Sell Price	<b>\$8,288.79</b>	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 Rate	Burden Percent	Labor Cost
Journeyman Local 665	0.00%	0.00	\$99.62	\$0.00	0.00%	\$0.00
Foreman Local 665	83.85%	26.02	\$114.56	\$0.00	0.00%	\$2,980.85
Project Manager Time	16.16%	5.01	\$124.53	\$0.00	0.00%	\$624.28
<b>Totals</b>	100.01%	31.03	\$116.17	\$0.00	0.00%	\$3,605.13

## Bid Summary Report

Grand Ledge Iron Plant Estimator: Mike

Job #2187

Mark Ups	OVERHEAD				PROFIT	
	Total	%	Amount	%	Amount	
Materials	\$1,176.82	+ 15.00%	\$1,353.34	+ 0.00%	\$1,353.34	
Labor	\$3,605.13	+ 15.00%	\$4,145.90	+ 0.00%	\$4,145.90	
Supplier Quotes	\$2,100.00	+ 15.00%	\$2,415.00	+ 0.00%	\$2,415.00	
SubContractors	\$0.00	+ 5.00%	\$0.00	+ 0.21%	\$0.00	
Direct Job Expense	\$200.00	+ 15.00%	\$230.00	+ 0.00%	\$230.00	
Equipment Rental	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00	
Fixtures Quotes	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00	
<b>Totals</b>	<b>\$7,081.96</b>	<b>15.00%</b>	<b>\$8,144.25</b>	<b>0.00%</b>	<b>\$8,144.25</b>	

Tax Report	Taxed Amount	Tax Rate %	Tax Amount
Materials	\$1,176.82	6.00%	\$70.61
Labor	\$3,605.13	0.00%	\$0.00
Supplier Quotes	\$0.00	6.00%	\$0.00
SubContractors	\$0.00	0.00%	\$0.00
Direct Job Expense	\$0.00	0.00%	\$0.00
Equipment Rental	\$0.00	6.00%	\$0.00
Fixtures Quotes	\$0.00	6.00%	\$0.00
	<b>Total Tax:</b>		<b>\$70.61</b>

Supplier Quotes					
Name	Supplier	Tax (6.0%)	Unit Cost	Mult	Amount
Instrumentation/SCADA	Perceptive	No	\$2,100.00	1.00	\$2,100.00
<b>Totals:</b>					<b>\$2,100.00</b>

Direct Job Expense					
Name	Supplier	Tax (0.0%)	Unit Cost	Mult	Amount
As Builts		No	\$200.00	1.00	\$200.00
<b>Totals:</b>					<b>\$200.00</b>

Item #	Item Name	Quantity	Book Price	U	Ext Book Price	NECA 1	U	Labor 1 Ext	CCode	% of Extended Price	% of Extended Hours
<b>Label Set: Combined, Combined, Combined, Combined, Combined</b>											
CCode: <none>											
60,178	14 THHN CU STRANDED	300.58	\$240.00	M	\$72.14	5.00	M	1.50		100%	100%
CCode: <undefined>											
60,233	R/R Grates	2.00	\$0.00	E	\$160.00	3.00	E	6.00		13.6%	50.69%
60,234	Barricading	2.00	\$50.00	E	\$100.00	2.00	E	4.00			
60,235	Valve Termination	1.00	\$10.00	E	\$10.00	1.25	E	1.25			
60,236	Wire Relay	2.00	\$25.00	E	\$50.00	2.00	E	4.00			
60,237	3/4" GRC Bend	4.00	\$0.00	E	\$0.00	12.00	C	0.48			
CCode: Branch Rough											
1,262	3/4 GRC	40.61	\$602.50	C	\$244.65	6.00	C	2.44	cb	38.95%	18.56%
1,276	3/4 GRC 90 ELBOW	2.00	\$32.70	E	\$65.40	0.40	E	0.80	cb		
2,731	3/4 LOCKNUT	8.12	\$127.96	C	\$10.39	0.12	E	0.97	cb		
2,769	3/4 BUSH PLASTIC	4.06	\$158.23	C	\$6.42	0.12	E	0.49	cb		
5,489	1/2 FLEX WP	10.00	\$194.42	C	\$19.44	4.00	C	0.40	cb		
5,501	1/2 FLEX WP CONN	2.00	\$2,126.91	C	\$42.54	0.15	E	0.30	cb		
5,549	1/2 FLEX WP 90 CONN	2.00	\$3,474.13	C	\$69.48	0.18	E	0.36	cb		
CCode: Hangers/Anchors											
3,315	1/4-20 X 3/4 RH MACH SCREW	5.08	\$8.08	C	\$0.41	2.75	C	0.14	ch	39.86%	18.04%
3,696	1/4 FLAT STL WASHER	5.08	\$282.75	C	\$14.35	0.70	C	0.04	ch		
3,769	3/8" X 2 1/4 STUD ANCHOR	10.00	\$45.53	C	\$4.55	18.00	C	1.80	ch		
3,774	1/4 MACHINE BOLT ANCH	5.08	\$19.88	C	\$1.01	16.00	C	0.81	ch		
3,876	3/8" SADDLE WASHER	10.00	\$17.85	C	\$1.79	0.70	C	0.07	ch		
3,880	3/8" WASHER	20.00	\$220.10	C	\$44.02	0.70	C	0.14	ch		
3,888	3/8" NUT	30.00	\$39.85	C	\$11.96	2.00	C	0.60	ch		
3,895	3/8" ALL THREAD	20.00	\$917.00	C	\$183.40	5.50	C	1.10	ch		
3,944	1 5/8 strut	7.50	\$2,767.92	C	\$207.59	12.00	C	0.90	ch		
CCode: Straps											
3,092	3/4 GRC 1H MAL STP	5.08	\$320.97	C	\$16.29	4.00	C	0.20	cs	1.38%	0.65%
CCode: Lugs/Termination/Ground											
					\$0.99			2.24		0.08%	7.22%

Job Name: Grand Ledge Iron Plant

Job Number: 2187

Extension Name: Bulletin #14 Item 1

Item #	Item Name	Quantity	Book Price	U	Ext Book Price	NECA 1	U	Labor 1 Ext	CCode	% of Extended Price	% of Extended Hours
5,736	12 GA TERMINATION	8.00	\$0.00	X	\$0.00	0.14	E	1.12 sl			
5,767	20A WIRE TERMINATION	8.00	\$0.00	X	\$0.00	0.14	E	1.12 sl			
5,837	RED 3M WIRE NUT	8.00	\$12.37	C	\$0.99	0.00	C	0.00 sl			
CCode: Branch Wire					\$0.00			0.00		0%	0%
					\$1,176.82			31.03			

## 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 #14 Item 3	\$3,697.44	100.00%	\$3,697.44	59.89	100.00%	59.89

### Top Sheet

Raw Cost	\$15,599.44	Sales per Month	\$0.00
Tax	\$280.83	Return per Month	\$0.00
Raw Cost with Tax	\$15,880.28	Price per Square Foot	\$0.00
Overhead	\$2,339.92	Hours per Square Foot	0.00
Profit	\$0.00	Square Feet	0.00
Total Return Amount	\$2,339.92	Job Months	0.00
Total Return %	12.73%	Hours per Week	0.00
Remaining Labor Hours	0.00	Average Hourly Rate w/ Burden	116.17
Price	\$18,220.19	Workers per Day	0.00
Bond	\$163.98	Total Hours	59.89
Sell Price	<b>\$18,384.17</b>	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 Rate	Burden Percent	Labor Cost
Journeyman Local 665	0.00%	0.00	\$99.62	\$0.00	0.00%	\$0.00
Foreman Local 665	83.84%	50.21	\$114.56	\$0.00	0.00%	\$5,752.06
Project Manager Time	16.16%	9.68	\$124.53	\$0.00	0.00%	\$1,204.83
<b>Totals</b>	99.99%	59.89	\$116.17	\$0.00	0.00%	\$6,956.89

## Bid Summary Report

Grand Ledge Iron Plant Estimator: Mike

Job #2187

Mark Ups	OVERHEAD				PROFIT	
	Total	%	Amount	%	Amount	
Materials	\$3,697.44	+ 15.00%	\$4,252.05	+ 0.00%	\$4,252.05	
Labor	\$6,956.89	+ 15.00%	\$8,000.42	+ 0.00%	\$8,000.42	
Supplier Quotes	\$3,395.12	+ 15.00%	\$3,904.39	+ 0.00%	\$3,904.39	
SubContractors	\$0.00	+ 5.00%	\$0.00	+ 0.00%	\$0.00	
Direct Job Expense	\$900.00	+ 15.00%	\$1,035.00	+ 0.00%	\$1,035.00	
Equipment Rental	\$650.00	+ 15.00%	\$747.50	+ 0.00%	\$747.50	
Fixtures Quotes	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00	
<b>Totals</b>	<b>\$15,599.44</b>	<b>15.00%</b>	<b>\$17,939.36</b>	<b>0.00%</b>	<b>\$17,939.36</b>	

Tax Report	Taxed Amount	Tax Rate %	Tax Amount
Materials	\$3,697.44	6.00%	\$221.85
Labor	\$6,956.89	0.00%	\$0.00
Supplier Quotes	\$333.12	6.00%	\$19.99
SubContractors	\$0.00	0.00%	\$0.00
Direct Job Expense	\$0.00	0.00%	\$0.00
Equipment Rental	\$650.00	6.00%	\$39.00
Fixtures Quotes	\$0.00	6.00%	\$0.00
	<b>Total Tax:</b>		<b>\$280.83</b>

Supplier Quotes					
Name	Supplier	Tax (6.0%)	Unit Cost	Mult	Amount
Instrumentation/SCADA	Perceptive	No	\$3,062.00	1.00	\$3,062.00
Eaton Controls	Kendall	Yes	\$333.12	1.00	\$333.12
<b>Totals:</b>					<b>\$3,395.12</b>

Direct Job Expense					
Name	Supplier	Tax (0.0%)	Unit Cost	Mult	Amount
Permit / Fees		No	\$350.00	1.00	\$350.00
As Builts		No	\$200.00	1.00	\$200.00
Equipment Mobilization		No	\$350.00	1.00	\$350.00
<b>Totals:</b>					<b>\$900.00</b>

Equipment Rental					
Name	Supplier	Tax (6.0%)	Unit Cost	Mult	Amount
Lift		Yes	\$300.00	1.00	\$300.00
PU/DO		Yes	\$350.00	1.00	\$350.00
<b>Totals:</b>					<b>\$650.00</b>

Job Name: Grand Ledge Iron Plant  
 Job Number: 2187  
 Extension Name: Bulletin #14 Item 3

Item #	Item Name	Quantity	Book Price	U	Ext Book Price	NECA 1	U	Labor 1 Ext	CCode	% of Extended Price	% of Extended Hours
<b>Label Set: Combined, Combined, Combined, Combined, Combined</b>											
CCode: <none>											
60,066 MMS		1.00	\$85.00	E	\$104.85			1.00		100%	100%
60,178	14 THHN CU STRANDED	82.69	\$240.00	M	\$19.85			0.41		2.84%	2.36%
CCode: <undefined>											
60,209 #12 THHN		567.75	\$316.75	M	\$284.83			12.36		7.7%	20.63%
60,232 15A 1-P Circuit Breaker		1.00	\$30.00	E	\$179.83			3.41			
60,233 R/R Grates		1.00	\$0.00	E	\$30.00			0.75			
60,234 Barricading		1.00	\$0.00	E	\$0.00			3.00			
60,236 Wire Relay		1.00	\$50.00	E	\$50.00			2.00			
60,237 3/4" GRC Bend		1.00	\$25.00	E	\$25.00			2.00			
CCode: Branch Rough											
1,262	3/4 GRC	10.00	\$0.00	E	\$0.00			1.20			
1,276	3/4 GRC 90 ELBOW	211.86	\$602.50	C	\$1,780.06			25.52		48.14%	42.61%
2,446	3/4 GRC LR BODY	10.00	\$32.70	E	\$1,276.44			12.71			
2,731	3/4 LOCKNUT	1.00	\$23.15	E	\$327.00			4.00			
2,769	3/4 BUSH PLASTIC	42.37	\$127.96	C	\$23.15			0.65			
5,489	1/2 FLEX WP	21.19	\$158.23	C	\$54.22			5.08			
5,501	1/2 FLEX WP CONN	5.00	\$194.42	C	\$33.52			2.54			
5,549	1/2 FLEX WP 90 CONN	1.00	\$2,126.91	C	\$9.72			0.20			
CCode: Hangers/Anchors											
3,315	1/4-20 X 3/4 RH MACH SCREW	1.00	\$34.74	E	\$34.74			0.18			
3,696	1/4 FLAT STL WASHER	26.48	\$8.08	C	\$1,442.20			18.98		39.01%	31.69%
3,769	3/8" X 2 1/4 STUD ANCHOR	26.48	\$282.75	C	\$2.14			0.73			
3,774	1/4 MACHINE BOLT ANCH	30.00	\$45.53	C	\$74.88			0.19			
3,876	3/8" SADDLE WASHER	26.48	\$19.88	C	\$13.66			5.40			
3,880	3/8" WASHER	30.00	\$17.85	C	\$5.26			4.24			
3,888	3/8" NUT	60.00	\$220.10	C	\$5.36			0.21			
3,895	3/8" ALL THREAD	90.00	\$39.85	C	\$132.06			0.42			
3,944	1 5/8 strut	60.00	\$917.00	C	\$35.87			1.80			
		22.50	\$2,767.92	C	\$550.20			3.30			
					\$622.78			2.70			

Job Name: Grand Ledge Iron Plant  
 Job Number: 2187  
 Extension Name: Bulletin #14 Item 3

Item #	Item Name	Quantity	Book Price	U	Ext Book Price	NECA 1	U	Labor 1 Ext	CCode	% of Extended Price	% of Extended Hours
CCode: Straps											
3,092	3/4 GRC 1H MAL STP	26.48	\$320.97	C	\$85.00	4.00	C	1.06		2.3%	1.77%
CCode: Lugs/Termination/Ground											
5,736	12 GA TERMINATION	4.00	\$0.00	X	\$0.49	0.14	E	0.56	sl	0.01%	0.94%
5,837	RED 3M WIRE NUT	4.00	\$12.37	C	\$0.49	0.00	C	0.00	sl		
CCode: Branch Wire											
					\$0.00					0%	0%
					<b>\$3,697.44</b>			<b>59.89</b>			

## 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 #14 Item 4	\$3,014.62	100.00%	\$3,014.62	27.11	100.00%	27.11

### Top Sheet

Raw Cost	\$7,082.99	Sales per Month	\$0.00
Tax	\$197.01	Return per Month	\$0.00
Raw Cost with Tax	\$7,280.00	Price per Square Foot	\$0.00
Overhead	\$1,062.45	Hours per Square Foot	0.00
Profit	\$0.00	Square Feet	0.00
Total Return Amount	\$1,062.45	Job Months	0.00
Total Return %	12.62%	Hours per Week	0.00
Remaining Labor Hours	0.00	Average Hourly Rate w/ Burden	116.17
Price	\$8,342.45	Workers per Day	0.00
Bond	\$75.08	Total Hours	27.11
Sell Price	<b>\$8,417.54</b>	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 Rate	Burden Percent	Labor Cost
Journeyman Local 665	0.00%	0.00	\$99.62	\$0.00	0.00%	\$0.00
Foreman Local 665	83.83%	22.73	\$114.56	\$0.00	0.00%	\$2,603.95
Project Manager Time	16.16%	4.38	\$124.53	\$0.00	0.00%	\$545.50
<b>Totals</b>	99.98%	27.11	\$116.17	\$0.00	0.00%	\$3,149.44

## Bid Summary Report

Grand Ledge Iron Plant Estimator: Mike

Job #2187

Mark Ups	OVERHEAD				PROFIT
	Total	%	Amount	%	Amount
Materials	\$3,014.62	+ 15.00%	\$3,466.81	+ 0.00%	\$3,466.81
Labor	\$3,149.44	+ 15.00%	\$3,621.86	+ 0.00%	\$3,621.86
Supplier Quotes	\$268.93	+ 15.00%	\$309.27	+ 0.00%	\$309.27
SubContractors	\$0.00	+ 5.00%	\$0.00	+ 0.00%	\$0.00
Direct Job Expense	\$650.00	+ 15.00%	\$747.50	+ 0.00%	\$747.50
Equipment Rental	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00
Fixtures Quotes	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00
<b>Totals</b>	<b>\$7,082.99</b>	<b>15.00%</b>	<b>\$8,145.44</b>	<b>0.00%</b>	<b>\$8,145.44</b>

Tax Report	Taxed Amount	Tax Rate %	Tax Amount
Materials	\$3,014.62	6.00%	\$180.88
Labor	\$3,149.44	0.00%	\$0.00
Supplier Quotes	\$268.93	6.00%	\$16.14
SubContractors	\$0.00	0.00%	\$0.00
Direct Job Expense	\$0.00	0.00%	\$0.00
Equipment Rental	\$0.00	6.00%	\$0.00
Fixtures Quotes	\$0.00	6.00%	\$0.00
	<b>Total Tax:</b>		<b>\$197.01</b>

Supplier Quotes					
Name	Supplier	Tax (6.0%)	Unit Cost	Mult	Amount
Corrosion Room EF Switch	Kendall	Yes	\$268.93	1.00	\$268.93
<b>Totals:</b>					<b>\$268.93</b>

Direct Job Expense					
Name	Supplier	Tax (0.0%)	Unit Cost	Mult	Amount
As Builts		No	\$200.00	1.00	\$200.00
Equipment Mobilization		No	\$450.00	1.00	\$450.00
<b>Totals:</b>					<b>\$650.00</b>

Job Name: Grand Ledge Iron Plant  
 Job Number: 2187  
 Extension Name: Bulletin #14 Item 4

Item #	Item Name	Quantity	Book Price	U	Ext Book Price	NECA 1	U	Labor 1 Ext	CCode	% of Extended Price	% of Extended Hours
<b>Label Set: Combined, Combined, Combined, Combined, Combined</b>											
CCode: <none>											
60,060	WP Cover	1.00	\$18.00	E	\$18.00	0.25	E	0.25		0.6%	0.92%
CCode: <undefined>											
60,209	#12 THHN	152.26	\$316.75	M	\$48.23	6.00	M	0.91		44.9%	65.51%
60,230	8x8x4 PVC Box	1.00	\$400.00	E	\$400.00	1.25	E	1.25			
60,231	Core Wall	1.00	\$150.00	E	\$150.00	2.00	E	2.00			
60,237	3/4" GRC Bend	4.00	\$0.00	E	\$0.00	12.00	C	0.48			
60,238	B905 Plasti-Bond	7.00	\$1,449.26	C	\$101.45	12.00	C	0.84			
60,239	FD Box	1.00	\$81.00	E	\$81.00	1.00	E	1.00			
60,240	PVC Coated GRC	47.00	\$1,218.79	C	\$572.83	24.00	C	11.28			
CCode: Branch Rough											
4,290	3/4 GRC/PVC 90 ELBOW	4.00	\$4,517.44	C	\$180.70	0.60	E	2.40		9.63%	11.62%
4,438	3/4X12 GRC/PVC NIP	1.00	\$67.66	E	\$67.66	0.30	E	0.30			
15,297	4/S BOX 1-1/2" DEEP	1.00	\$2,694.84	C	\$26.95	30.00	C	0.30			
15,300	4/S SG MUD RING 1/2" DP	1.00	\$1,490.41	C	\$14.90	15.00	C	0.15			
CCode: Hangers/Anchors											
3,315	1/4-20 X 3/4 RH MACH SCREW	5.86	\$8.08	C	\$0.47	2.75	C	0.16		24.12%	17.99%
3,696	1/4 FLAT STL WASHER	5.86	\$282.75	C	\$16.56	0.70	C	0.04			
3,769	3/8" X 2 1/4 STUD ANCHOR	14.00	\$45.53	C	\$6.37	18.00	C	2.52			
3,774	1/4 MACHINE BOLT ANCH	5.86	\$19.88	C	\$1.16	16.00	C	0.94			
3,865	HEX LAG BLT 3/8X3	14.00	\$47.78	E	\$668.92	8.00	C	1.12			
3,880	3/8" WASHER	14.00	\$220.10	C	\$30.81	0.70	C	0.10			
3,923	BOX SUPPORTS-CLIP ON	1.00	\$290.32	C	\$2.90	0.00	C	0.00			
CCode: Straps											
4,846	3/4 GRC/PVC 1H STRAP	5.86	\$30.61	E	\$179.26	4.00	C	0.23		19.64%	1.64%
4,872	3/4 GRC/PVC CLAMP BACK	5.86	\$46.35	E	\$271.44	0.00	C	0.00			
4,965	3/4 GRC/PVC C105 STRAP	7.00	\$2,018.50	C	\$141.30	3.00	C	0.21			
CCode: Trim Devices/Plates											
14,895	SP TOGGLE SW, 20A SPEC.	1.00	\$30.80	E	\$33.70	25.00	C	0.35		1.12%	1.29%

Job Name: Grand Ledge Iron Plant

Job Number: 2187

Extension Name: Bulletin #14 Item 4

Item #	Item Name	Quantity	Book Price	U	Ext Book Price	NECA 1	U	Labor 1 Ext	CCode	% of Extended Price	% of Extended Hours
14,950	1G SS SWITCH PLATE	1.00	\$2.90 <b>F</b>		\$2.90	10.00	<b>C</b>	0.10 dt			
	CCode: Lugs/Termination/Ground				\$0.00			0.28		0%	1.03%
5,767	20A WIRE TERMINATION	2.00	\$0.00 <b>X</b>		\$0.00	0.14	<b>F</b>	0.28 sl			
					<b>\$3,014.62</b>			<b>27.11</b>			

## 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 #14 Item 5	\$289.55	100.00%	\$289.55	6.01	100.00%	6.01

### Top Sheet

Raw Cost	\$988.12	Sales per Month	\$0.00
Tax	\$17.37	Return per Month	\$0.00
Raw Cost with Tax	\$1,005.49	Price per Square Foot	\$0.00
Overhead	\$148.22	Hours per Square Foot	0.00
Profit	\$0.00	Square Feet	0.00
Total Return Amount	\$148.22	Job Months	0.00
Total Return %	12.73%	Hours per Week	0.00
Remaining Labor Hours	0.00	Average Hourly Rate w/ Burden	116.17
Price	\$1,153.71	Workers per Day	0.00
Bond	\$10.38	Total Hours	6.01
Sell Price	<b>\$1,164.09</b>	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 Rate	Burden Percent	Labor Cost
Journeyman Local 665	0.00%	0.00	\$99.62	\$0.00	0.00%	\$0.00
Foreman Local 665	83.83%	5.04	\$114.56	\$0.00	0.00%	\$577.58
Project Manager Time	16.16%	0.97	\$124.53	\$0.00	0.00%	\$121.00
<b>Totals</b>	99.98%	6.01	\$116.17	\$0.00	0.00%	\$698.57

## Bid Summary Report

Grand Ledge Iron Plant Estimator: Mike

Job #2187

Mark Ups			OVERHEAD		PROFIT	
	Total	%	Amount	%	Amount	
Materials	\$289.55	+ 15.00%	\$332.98	+ 0.00%	\$332.98	
Labor	\$698.57	+ 15.00%	\$803.36	+ 0.00%	\$803.36	
Supplier Quotes	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00	
SubContractors	\$0.00	+ 5.00%	\$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	
<b>Totals</b>	<b>\$988.12</b>	<b>15.00%</b>	<b>\$1,136.34</b>	<b>0.00%</b>	<b>\$1,136.34</b>	

Tax Report	Taxed Amount	Tax Rate %	Tax Amount
Materials	\$289.55	6.00%	\$17.37
Labor	\$698.57	0.00%	\$0.00
Supplier Quotes	\$0.00	6.00%	\$0.00
SubContractors	\$0.00	0.00%	\$0.00
Direct Job Expense	\$0.00	0.00%	\$0.00
Equipment Rental	\$0.00	6.00%	\$0.00
Fixtures Quotes	\$0.00	6.00%	\$0.00
		<b>Total Tax:</b>	<b>\$17.37</b>



BULLETIN  
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
DRAWING REVISION NO.:	B14 – Revised
ISSUED HEREWITH:	<div style="border: 1px solid black; background-color: yellow; padding: 5px; display: inline-block;">PCI Pricing 5/30/2025</div>
SPECIFICATION SECTIONS:	None
SHEETS:	P003, P102, P103, P202, P301, M601, E201, E503
DISTRIBUTION:	City of Grand Ledge – Kurt Ristow RK Davis, Inc – Peter Elzinga, Rob Kaliniak Fishbeck – Ariana Wade, PE, John Willemin, PE

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.

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:**

Sheet: P003 – Schedules and Details (reissued)  
P103 – Flow Schematic and P&ID (reissued)  
P202 – Enlarged Plans and Isometric (reissued)  
P301 – Sections (reissued)  
E201 – Power Plans (reissued)  
Section: 40 90 00 – Instrumentation and Control for Process Systems (not reissued)

- A. Provide 1/2-inch electrically actuated stainless steel ball valve (437). Model No.: Valworx 5602 with Battery Spring Return system, fail open.
- B. Install 1/2-inch threadolet on air scour main, isolation ball valve, and the actuated valve 437, as indicated on Drawings.
- C. Add Valve 437 to Valve Schedule.
- D. Provide conduit and wiring and update existing PLC programming.
- E. Revise Specification Section 40 90 00 Paragraph 1.7 J. Filter System, 2. c. to include the following:
  - 10. Normally-open actuated ball valve (437) closes.

BULLETIN  
PAGE 2 OF 3

F. Revise Specification Section 40 90 00 Paragraph 1.7 K. Airwash Blower System to include the following:

5. The airwash header shall be equipped with a 1/2-inch drain and normally-open actuated ball valve (437). Valve 437 shall be called to close (ZCC-437) when either BL-1 or BL-2 is called to run. When the blowers, BL-1 or BL-2, stop running, valve shall be called to open (ZCO-437).

ADD/DEDUCT: \$ ADD \$2,100.00

ITEM NO. 2:

Sheet: P301 – Sections (reissued)

- A. Move HMO pump suction valves to accessible location. Reuse previously installed ball valves, and piping as applicable.

ADD/DEDUCT: \$ NA

ITEM NO. 3:

Sheet: P003 – Schedules and Details (reissued)  
P102 – Flow Schematic and P&ID (reissued)  
P202 – Enlarged Plans and Isometric (reissued)  
P301 – Sections (reissued)  
E201 – Power Plans (reissued)  
E503 – Wiring Diagrams (reissued)

Section: 40 90 00 – Instrumentation and Control for Process Systems (not reissued)

- A. Provide magnetic drive sample pump (SP-1). Model No.: Iwaki MD-30RZ
- B. Install sample pump SP-1 and associated raw water sample piping.
- C. Provide conduit and wiring and update existing PLC programming.
- D. Replace Specification Section 40 90 00 Paragraph 1.7 E. 1. with the following:
  1. A magnetic drive sample pump (SP-1) shall deliver a continuous raw water sample (Sample Point SP-1) to the WTP laboratory when wells are in operation. Pump SP-1 shall have a HAND-OFF-AUTO (HOA) selector switch mounted at the manual motor starter in the treatment plant. Control and operation of SP-1 shall be as follows:
    - a. Pump operation shall be as detailed on the pump motor wiring diagram when the HOA switch is placed in HAND position.
    - b. In AUTO mode under SCADA control, control and operation of SP-1 shall be as follows:
      - 1) The pump shall receive a call to start (CS-105) when any well pump supplying the treatment plant (Well Nos. 2, 6, 7 or 8) is in operation.
      - 2) The pump shall receive a call to stop when no well pump supplying the treatment plant (Well Nos. 2, 6, 7 or 8) is in operation.
      - 3) Pump operation shall be able to be controlled via the SCADA system. It shall be possible to start and stop (CS-105) the pump from a SCADA screen. Remote control status shall be indicated on the SCADA Screen (HS-105).

ADD/DEDUCT: \$ ADD \$3,062.00

ITEM NO. 4:

Sheet: E201 – Power Plans (reissued)  
E503 – Wiring Diagrams (reissued)

- A. Provide switch outside exterior door to control Exhaust Fan EF-110-1.

ADD/DEDUCT: \$ NA

BULLETIN  
PAGE 3 OF 3

ITEM NO. 5:

Sheet: M601 – First Floor Mechanical Piping Plan (reissued)

- A. Move thermostat in Blower Room away from compressors to avoid heat source.

ADD/DEDUCT: \$ NA

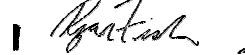
ITEM NO. 6:

Sheet: M601 – First Floor Mechanical Piping Plan (reissued)

- A. Relocate AHU display interface from base of AHU to first floor.
- B. Provide temperature sensor as was noted on bid set plans.
- C. Add NEMA 3R enclosure around display for protection.

ADD/DEDUCT: \$ NA

Contractor:



Signature

Ryan Fisher, Pres.

Name and Title of Signatory

5/30/25

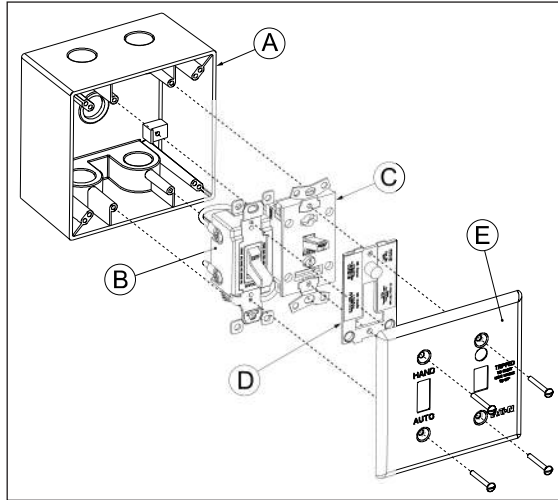
Date

END OF BULLETIN



# Enclosed Manual Motor Starter with Hand-Auto

Type text here



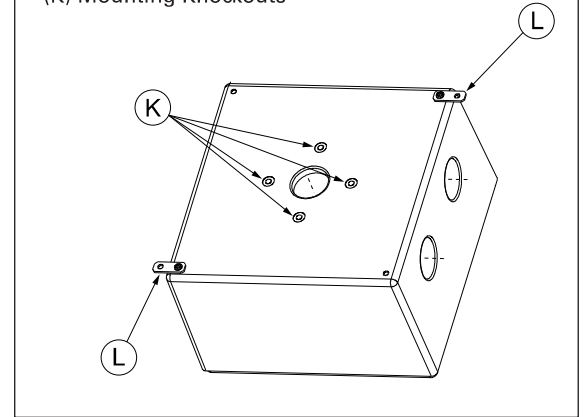
**Figure 1. Exploded View**

This packaged solution, in conjunction with the appropriate sized heater pack, will provide all the necessary components to provide local and remote control, overload protection, and running light indications for small motor applications.

1. Remove the cover plate (E) from the enclosure.
2. Remove the motor starter (C) with the pilot light (D), the hand / auto switch (B), the wiring diagram, heater pack diagram, and the packaged mounting lugs & closure plugs from the enclosure (A).
3. If the hole located at the back of the enclosure will not be used, twist the closure plug into location.
4. Mount the enclosure into location utilizing the mounting lugs or by using the integral mounting knockouts as shown in Figure 2.
5. Remove the pilot light from the motor starter as shown in Figure 3.
6. Install the MSH heater pack into location within the starter (C) as shown in Figure 4. (Available heater packs are shown in Table 1.)
7. Access the terminals of the starter (C) as shown in Figure 5.

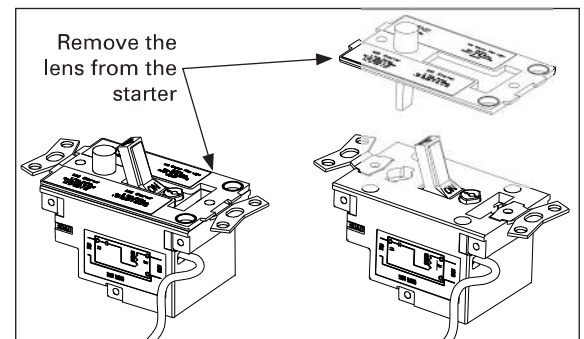
**Mounting Options :**

- (L) Mounting Lugs
- (K) Mounting Knockouts



**Figure 2. Mounting Options**

8. Wire the line and load side terminals of the starter (C) per the wiring diagram shown in Figure 6.
9. Wire the available line terminal of the switch (B) into your remote source.
10. Re-install the pilot light into location.
11. Re install the starter with pilot light and the hand / auto switch back into the enclosure with wire leads hanging out of the appropriate conduit outlets.
12. Secure the cover plate back onto the enclosure.



**Figure 3. Pilot Light Removal**



Powering Business Worldwide

**TABLE 1. MST HEATER PACK TABLE**  
(Wire with 60°C / 70°C wire)

Code Marking	Full-Load Current of Motor (Amps) (40°C Ambient)	Max. Protect. Device (Amp)	Code Marking	Full-Load Current of Motor (Amps) (40°C Ambient)	Max. Protect. Device (Amp)	Code Marking	Full-Load Current of Motor (Amps) (40°C Ambient)	Max. Protect. Device (Amp)
MSH .5A	.40 - .43	1 Amp Fuse*	MSH 1.7A	1.36 - 1.51	5 Amp Fuse*	MSH 6.0A	4.80 - 5.26	20 Amperes
MSH .55A	.44 - .48	2 Amp Fuse*	MSH 1.9A	1.52 - 1.67	5 Amp Fuse*	MSH 6.6A	5.27 - 5.83	20 Amperes
MSH .61A	.49 - .53	2 Amp Fuse*	MSH 2.1A	1.68 - 1.83	6 Amp Fuse*	MSH 7.3A	5.84 - 6.39	20 Amperes
MSH .67A	.54 - .58	2 Amp Fuse*	MSH 2.3A	1.84 - 1.99	6 Amp Fuse*	MSH 8.0A	6.40 - 7.03	25 Amperes
MSH .74A	.59 - .64	2 Amp Fuse*	MSH 2.5A	2.00 - 2.23	6 Amp Fuse*	MSH 8.8A	7.04 - 7.74	25 Amperes
MSH .81A	.65 - .71	3 Amp Fuse*	MSH 2.8A	2.24 - 2.47	6 Amp Fuse*	MSH 9.7A	7.75 - 8.46	25 Amperes
MSH .89A	.72 - .78	3 Amp Fuse*	MSH 3.1A	2.48 - 2.71	10 Amp Fuse*	MSH 10.6A	8.47 - 9.35	30 Amperes
MSH .98A	.79 - .87	3 Amp Fuse*	MSH 3.4A	2.72 - 2.95	10 Amp Fuse*	MSH 11.7A	9.36 - 10.30	35 Amperes
MSH 1.1A	.88 - .95	3 Amp Fuse*	MSH 3.7A	2.96 - 3.27	15 Amperes	MSH 12.9A	10.31 - 11.35	40 Amperes
MSH 1.2A	.96 - 1.03	3 Amp Fuse*	MSH 4.1A	3.28 - 3.59	15 Amperes	MSH 14.2A	11.36 - 12.47	40 Amperes
MSH 1.3A	1.04 - 1.15	3 Amp Fuse*	MSH 4.5A	3.60 - 3.99	15 Amperes	MSH 15.6A	12.48 - 13.67	45 Amperes
MSH 1.45A	1.16 - 1.27	3 Amp Fuse*	MSH 5.0A	4.00 - 4.39	15 Amperes	MSH 17.1A	13.68 - 15.12	50 Amperes
MSH 1.6A	1.28 - 1.35	5 Amp Fuse*	MSH 5.5A	4.40 - 4.79	15 Amperes	MSH 18.6A	15.13 - 16.00	60 Amperes

\*15 Ampere protective device is permitted by NEC. Fuse size shown in table limits fault current.

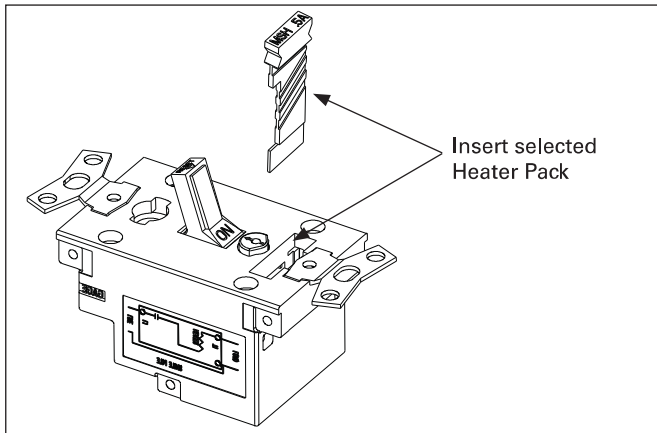


Figure 4. Installation of Heater Pack

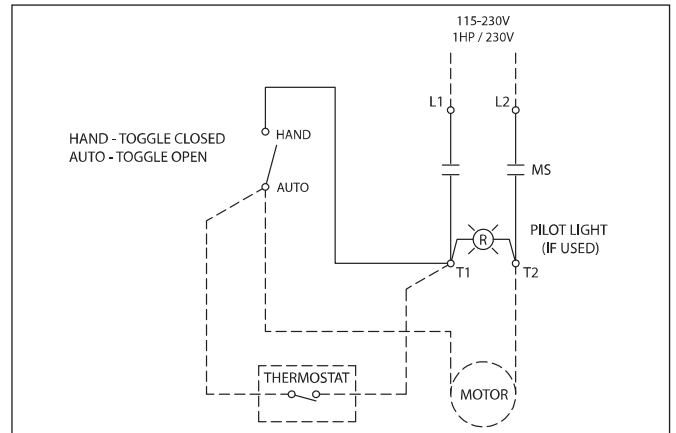


Figure 6. Wiring Diagram

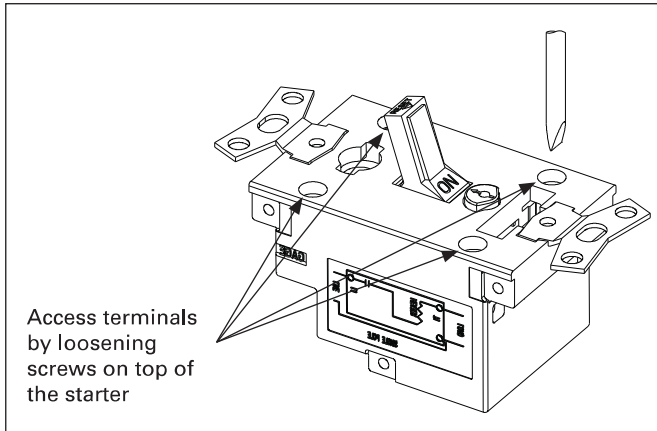


Figure 5. Terminal Access

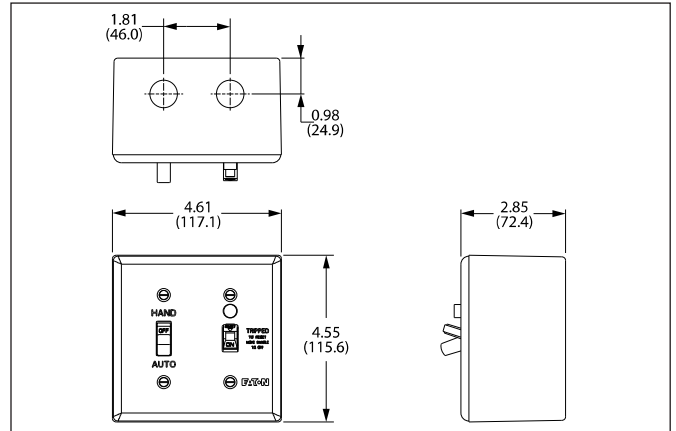


Figure 7. General Dimensions

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

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Publication No. P52977 / 001  
July 2015



**Grand Ledge Iron Removal Plant**  
**Special Inspections / Material Testing**  
**Allowance Reconciliation**  
**5/9/2025**

1 Special Inspections Allowance	25,000.00
2 Material Testing Allowance	10,000.00
3 CO No. 11 Adjustment	10,720.55
<b>Budget Total</b>	<b>45,720.55</b>

Expended to Date	50,437.80
05/06/23 Invoice	1,015.00
<b>Total Expense</b>	<b>51,452.80</b>

**Shortage 5,732.25**



A CMS Energy Company

**CEM Support Center**

Consumers Energy, CEM Support Center, Lansing Service Center, Rm. 122, 530 W. Willow St., P.O. Box 30162 Lansing, MI 48909-7662

December 29, 2022

NOTIFICATION #:  
1061220813

CITY OF GRAND LEDGE  
13253 LAWSON RD  
GRAND LEDGE, MI 48837-9755

REFERENCE: 318 E SAGINAW HWY, GRAND LEDGE

Dear Valued Customer,

Thank you for contacting Consumers Energy for your energy needs. Please note the Notification Number above and include it on any correspondence you send. Please note the Account Number, located above the Account Name on your invoice, when submitting payment.

A copy of our design drawing showing the proposed location of the gas service entrance is enclosed.

The estimated cost for your energy request is as follows:

Gas Service Connection Fee:	\$	200.00
Excess Footage Charge:	\$	-
Winter Construction Costs:	\$	-
Gas Fuel Line Tie In:		
Permit(s):		
Additional Costs - See Invoice:		
<b>Total Estimated Cost:</b>	<b>\$</b>	<b>200.00</b>
Less Prepayment Received:	\$	-
<b>Total Estimated Cost Due:</b>	<b>\$</b>	<b>200.00</b>

Costs may also result from practical difficulties encountered during construction and additional payment may be required if:

- Work presently designed is done outside normal business hours.
- Change to the location of the service entrance.
- Changes to the design or route.
- Other construction delays.

Enclosed is an estimated invoice that is valid for 60 days from the date of this letter and is subject to change thereafter. This cost estimate includes only work required for Consumers Energy and does not reflect any work or costs that may be required by other parties, including other utilities. Once we receive your payment and any required easements, contracts, permits or inspections we can proceed with your request.

**CONTACT OUR SECURE CREDIT/DEBIT CARD PAYMENT CENTER @ 1-866-329-9593 TO PAY "FEE FREE" WITH YOUR VISA OR MASTERCARD OR MAKE A PAYMENT ONLINE AT: [www.consumersenergy.com](http://www.consumersenergy.com) AND CLICK "MAKE PAYMENT" TO USE THE GUEST PAY FEATURE.**

Please review all attached materials carefully and direct inquiries for your request to:

Brandon Tuthill at 517-247-8365



CITY OF GRAND LEDGE  
13253 LAWSON RD  
GRAND LEDGE MI 48837-9755

**Amount Due: \$200.00**  
**Please pay by: January 12, 2023**

▶ <b>Invoice Number</b>	9324113886
<b>PO Number</b>	
<b>PO Date</b>	
<b>Bill Date</b>	12/29/22

▶ **Account: 3000 2063 4055** ◀

▶ 318 E SAGINAW HWY GRAND LEDGE - GAS UTILITY INSTALLATION - NOTIFICATION NUMBER (s): - - 1061220813

### NONENERGY INVOICE

DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
Gas CIAC Meter Connection Fee	1.0 EA	\$200.00	\$200.00
<b>TOTAL DUE:</b>			<b>\$200.00</b>

**See Page 2 for Payment Options.**  
Consumers Energy is regulated by the Michigan Public Service Commission, Lansing, Michigan

**INVOICE QUESTIONS - Contact: Brandon Tuthill -517-247-8365**

Fold, detach and mail this stub with your check made payable to Consumers Energy. Please write your account number on your check.



CONSUMERS ENERGY  
CEM Support Ctr - Lansing RM 122  
PO Box 30162  
Lansing, MI 48909-7662

PREPAYMENT REQUEST

**Account: 3000 2063 4055**

**Amount Due: \$200.00**  
**Please pay by: January 12, 2023**  
▶ **Enclosed:**

6 330033337311 000000200006 0000 2056 2 300020634055 H

**CHECK REQUEST**

Date: Sept 15, 2023

Payable to: Consumers Energy

In the amount of: \$200.00

G/L account number: 01554

Job # and Code or Equipment name: C730 Natural Gas Allowance

What is this check for? City of Grand Ledge IRP Gas Connection

Date check required: 09/28/23

Requested by: Laura Elzinga

Return check to Requestor

Mail check to: \_\_\_\_\_





March 10, 2025

Project Manager: Peter Elzinga  
 Company: RK Davis  
 Email Address: [pelzinga@rkdavis.us](mailto:pelzinga@rkdavis.us)

Re: Change Order Request

Project Name: Grand Ledge Iron Removal Plant

Description of work: Paint existing pipes in well house with 1 coat of Macropoxy 646 - 2nd  
 • coat in High Solids Urethane

Shown below is a cost summary of labor and/or material that has exceeded the contract amount. Upon your review and acceptance, please issue a change order so we may include on our next billing.

	QTY	UNIT	RATE	COST
Labor	3	hrs	\$72.00	\$216.00
Material	1	ls	\$25.75	\$25.75
			<b>TOTAL:</b>	<b>\$241.75</b>

