



March 24, 2026

City of Grand Ledge
310 Greenwood St.
Grand Ledge, MI 48837

Attn: Adam Smith, City Manager *via e-mail* – asmith@cityofgrandledge.com

Re: Wastewater Treatment Plant Improvements Project
HRC Recommendation Letter for Change Order 03

CWSRF 5825-01
HRC Project 20221119

Dear Mr. Smith:

HRC has reviewed the pricing submitted by RK Davis for the following items in Change Order 3:

CP16	Field Order 10 - Elimination of Blower Piping Insulation not required for the AGS building piping from the blowers to the AGS tanks.	Decrease	\$(59,540.00)
CP17	Additional PVC fittings for the 8" DR at SPB to MH-J to accommodate the tank drain tie into the manhole.	Increase	\$1,700.45
CP18	Additional PVC fittings for the 8" DR to avoid conflicting with the duct bank to the north of the valve vault.	Increase	\$1,697.42
CP19	Change for the CMU block cavity wall insulation type and credit for the type of block face required to match existing building.	Increase	\$1,731.38
CP20	Field Order 14 - Additional water main and return drain piping as a result of the diversion structure in a differing location from the survey	Increase	\$6,169.21
CP22	Delete 2 Rigid Inclusion Load Tests	Decrease	\$(32,400.00)
CP23	Field Order 16 - Raise Trench Drains in the Sludge Processing Bldg.	Increase	\$3,072.94
CP24	Address the existing 12" PEWW conflict with new the 20" RW forcemain and additional AIS 12" ductile iron fittings.	Increase	\$14,123.02
Net Contract Change		Decrease	\$(63,445.58)

The following provides a description of the above listed changes:

- CP16: Elimination of Blower Piping Insulation not required for the AGS building piping from the blowers to the AGS tanks.**
Blower piping insulation was included in the project for noise minimization of the new blower discharge piping at the AGS building and the aerobic digestion system. Because the blowers used in the AGS package are high efficiency hybrid screw blowers they produce lower noise than the conventional positive displacement blowers. The insulation of the blower piping in the AGS building and pipe gallery is therefore not necessary and this credit is for the elimination of this pipe insulation.
- CP17: Additional PVC fittings for the 8" DR at SPB to MH-J**
This addition includes the two additional fittings required to connect the MH-J and maintain clearance below the existing 12" RAS that will be reused as the 12" WAS.
- CP18: Additional PVC fittings for the 8" DR to avoid conflicting with the duct bank to the north of the valve vault.**
The existing duct bank between the headworks and the electrical room of the blower building is deeper than shown on the record drawings in this area, this increase is for the additional fittings to lower the drain piping between the manhole and the wet well where this discharges and avoid conflicting with the duct bank.
- CP19: Change for the CMU block cavity wall insulation type and credit for the type of block face required to match existing building.**
Change in to provide higher R-value cavity wall insulation (polystyrene to polyiso) and credit to use smooth block to match existing buildings.

- CP20: Field Order 14 - Additional water main and return drain piping as a result of the diversion structure in a differing location from the survey
This price includes the additional water main piping and the return drain piping due to the diversion structure being located approximately 10' feet north of the as-built drawing and survey provided during the design.
- CP22: Delete 2 Rigid Inclusion Load Tests not required with the elimination of the rigid inclusions at the sludge processing building.
The soil conditions below the sludge processing building identified better bearing capacity at a higher elevation than anticipated. As such, the contractor was able to remove the unsuitable soil using conventional excavation methods. This credit is for the deletion of the load tests for the rigid inclusions removed from the scope as a result of this improved soil bearing capacity.
- CP23: Field Order 16 - Raise Trench Drains in the Sludge Processing Bldg.
The trench drains were installed with a 1:12 slope for draining water below a dumpster for future dewatering equipment. Based on feedback from the City this slope is not needed and because the date future dewatering is unknown, a flatter floor is preferred for the anticipated use of the sludge processing building.
- CP24: Address the existing 12" PEWW conflict with new the 20" RW forcemain and additional AIS 12" ductile iron fittings
The new 20" RW forcemain was jack and bored under the existing influent channel to maintain continuous flow to the WWTP. On the south side of the channel the existing 12" PEWW line was higher and had to be lowered to avoid conflicting with the new 20" RW forcemain. This avoided a schedule delay for the jack and bore equipment and subsequent delay claims.

We find the Contractor's added costs and credits and contract extension of 2 days acceptable for the changes in the work. On the Change Order document, we have included an explanation for each change and our recommendation. If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.



Douglas I. Urquhart, P.E.
Associate

DIU/diu
Attachments

pc: City of Grand Ledge; D. Gutchess, G. Newman
HRC; T. Sneathen, J. Cole, File

CHANGE ORDER NO.: 03

Owner:	City of Grand Ledge	Owner's Project No.:	5825-01
Engineer:	Hubbell, Roth & Clark	Engineer's Project No.:	20221119
Contractor:	RK Davis, Inc.	Contractor's Project No.:	C760
Project:	Wastewater Treatment Plant Improvements	Effective Date of Contract	6/11/2025
Contract Name:	Wastewater Treatment Plant Improvements		
Date Issued:	3/24/2026	Effective Date of Change Order:	3/24/2026

The Contract is modified as follows upon execution of this Change Order:

Description:		Price
CP16	Field Order 10 - Elimination of Blower Piping Insulation not required for the AGS building piping from the blowers to the AGS tanks.	Decrease \$ (59,540.00)
CP17	Additional PVC fittings for the 8" DR at SPB to MH-J to accommodate the underdrain tie in to the drain manhole.	Increase \$ 1,700.45
CP18	Additional PVC fittings for the 8" DR to the avoid conflicting with the duct bank to the north of the valve vault.	Increase \$ 1,697.42
CP19	Change for the CMU block cavity wall insulation type and credit for the type of block face required to match existing building.	Increase \$ 1,731.38
CP20	Field Order 14 - Additional water main and return drain piping as a result of the diversion structure being in a differing location from the site survey	Increase \$ 6,169.21
CP22	Unit Price Adjustment - Delete two (2) Rigid Inclusion Load Tests not required based on the elimination of the rigid inclusions at the sludge processing building.	Decrease \$ (32,400.00)
CP23	Field Order 16 - Raise Trench Drains in the Sludge Processing Building	Increase \$ 3,072.94
CP24	Existing 12" PEWW conflict with new 20" RW Forcemain. Additional AIS 20" ductile iron fittings.	Increase \$ 14,123.02
	Total	\$ (63,445.58)

Attachments:

- CP16_Field Order 10 Eliminate Pipe Insulation.pdf
- CP17_Add Fittings for SPB MH.pdf
- CP18_8IN_DR_FO12.pdf
- CP19_Change cavity wall insulation and block face.pdf
- CP20_Diversion_Structure_Differing_Location_Rev1.pdf
- CP22_Delete two Rigid Inclusion Load Tests.pdf
- CP23_Raise SPB Trench Drain.pdf
- CP24_Reroute 12 inch PEWW line above 20 inch RW line.pdf

Change in Contract Price	Change in Contract Times
Original Contract Price: \$43,679,400.00	Original Contract Times: Substantial Completion: 1020 3/27/2028 Ready for final payment: 1050 4/26/2028
Change from previously approved Change Orders : (\$37,749.06)	Change from previously approved Change Orders: Substantial Completion: 1 Ready for final payment: 1
Contract Price prior to this Change Order: \$43,641,650.94	Contract Times prior to this Change Order: Substantial Completion: 1021 3/28/2028 Ready for final payment: 1051 4/27/2028
Decrease this Change Order: (\$63,445.58)	Change this Change Order: Substantial Completion: 2 Ready for final payment: 2
Contract Price incorporating this Change Order: \$43,578,205.36	Contract Times with all approved Change Orders: Substantial Completion: 1023 3/30/2028 Ready for final payment: 1053 4/29/2028

By: _____
 Title: **Associate**
 Date: **3/24/26**
 Authorized by Contractor
 By: _____
 Title: **Project Manager**
 Date: **03/24/2026**

Authorized by Owner

3/24/26
 Approved by Funding Agency (if applicable)

FIELD ORDER NO.: 10
Pipe Insulation for Low Pressure Air Piping Deductions

Title: LPA Insulation Deduction
Owner: City of Grand Ledge
Engineer: Hubbell, Roth & Clark
Contractor: RK Davis Inc.
Project: Wastewater Treatment Plant Improvements
Contract Name: Wastewater Treatment Plant Improvements
Date Issued: 10/21/25
Owner's Project No.: N/A
Engineer's Project No.: 20221119
Contractor's Project No.:
Effective Date of Field Order: 10/21/25

Contractor is hereby directed to promptly perform the Work described in this Field Order, issued in accordance with Paragraph 11.04 of the General Conditions, for minor changes in the Work without changes in Contract Price or Contract Times. If Contractor considers that a change in Contract Price or Contract Times is required, submit a Change Proposal before proceeding with this Work.

Description:

As a clarification and follow up to RFI 38: "Section 15250 Page 6 calls for blower discharge low pressure air (LPA) pipe to have Melamine insulation w/vinyl jacket. 2" ASJ fiberglass pipe-covering with PVC fitting covers and loaded vinyl jacketing was offered over all blower piping and fittings with a proposed credit."

Regarding Section 15250 3.6C.1 "Process Insulation Schedule" for "Blower Discharge Air Piping":

- In the AGS Blower Room/Pipe gallery, eliminate all insulation of the LPA piping from the scope of this project.
- In the Aerobic Digester Blower Room, the proposed 2" ASJ fiberglass pipe covering with PVC covers and vinyl jacketing is acceptable for the blower discharge piping. Aluminum jacketing would also be acceptable.

Please update the credit proposed for City review.

Attachments:

- None

Issued by Engineer

By: Douglas Urquhart, P.E.
Title: Associate
Date: 10/21/2025

11/4/25 FHC Deduct = \$59,540



November 4, 2025

Insulation
8065 Cox's Drive
Portage, MI 49002
(269) 327-0502

Blasting & Coatings
3951 XY Avenue
Schoolcraft, MI 49087
(269) 327-0502

To: FHC
Attn: Dave Reynhout
616-538-3231
dave@franklinholwerda.com

SUBJECT: Proposal – Grand Ledge WWTP - Bulletin F10 Revision

We submit the following pricing change for the requested bulletin designated F10:

- Field Order 10: 2" ASJ fiberglass pipe-covering with PVC fitting covers and aluminum jacketing over all piping and fittings – Cost reduction of material change: **\$32,900.00** – Cost reduction of scope change (removing scope of AGS Blower Room/Pipe Gallery and keeping scope of Aerobic Digester Blower Room): **\$26,640.00**. Total reduction: **\$59,540.00**.

- **F10 Total Deduct: \$59,540.00**

Quoted at prevailing wage rates.

This proposal is valid for 30 days.

Thank you for the opportunity to provide a proposal for your requirements.

If you have any questions, please feel free to contact us.

Sincerely,

Jason Hubbard

Estimator



Equal Opportunity Employer

E.T. MacKenzie Company - Grand Ledge

One of The MacKenzie Companies

4248 West Saginaw Highway
Grand Ledge, MI 48837

Phone: (517) 627.8408 Fax: (517) 627.4470
www.mackenzieco.com

To:	RK Davis	Contact:	
Address:	4457 40th St. SE Kentwood, MI 49512	Phone:	616-456-0059
CO Name:	MH J - Additional 8" DR Fittings (RFI 48, 50)	Fax:	
Project Name:	COGL WWTP - 4.8.25	CO ID:	20
Project Location:		CO Date:	4/7/2025

Per RFI 48 and 50 and email dated 10.31.25; this Change Proposal is for the additional 8" DR fittings required for the line to enter MH-J.

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
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13.0 - RFI 48/50

05.0 - Site Utilities

1	Additional 8" DR Fittings	2.00	EACH	\$739.73	\$1,479.46
Total Price for above 05.0 - Site Utilities Items:					<u>\$1,479.46</u>



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To: RK Davis	Contact:
Address: 4457 40th St. SE Kentwood, MI 49512	Phone: 616-456-0059 Fax:
CO Name: MH J - Additional 8" DR Fittings (RFI 48, 50)	CO ID: 20
Project Name: COGL WWTP - 4.8.25	CO Date: 4/7/2025
Project Location:	

Per RFI 48 and 50 and email dated 10.31.25; this Change Proposal is for the additional 8" DR fittings required for the line to enter MH-J.

Notes:

- The following items are excluded from this proposal:
 - Permits
 - Bonds - **PLM BONDS ONLY**
 - Fees
 - Engineering
 - Surveying
 - Layout - **FOR OUR WORK ONLY**
 - As-Built Drawings - **REDLINES ONLY**
 - Road Certification
 - Geotechnical Engineering
 - Geotechnical Testing
 - Quality Control Testing
 - Environmental Testing
 - Environmental Monitoring
 - Dewatering - **PROVIDED FOR OUR PIPE INSTALLATION ONLY**
 - Hazardous Material Handling and Disposal
 - Contaminated Material Handling and Disposal
 - Handling Spoils Produced by Others
 - Foundation Excavation and Backfill - **ONLY AS NOTED IN PROPOSAL**
 - Structural Concrete
 - Franchised Utility Installation
 - Franchised Utility Relocation
 - Franchised Utility Demolition
 - Well Removal / Abandonment
 - Wetland Mitigation and Associated Work
 - Exporting Excess Soils - **ONLY THOSE GENERATED BY OUR WORK**
 - Importing Fill Soil
 - Undercutting Unsuitable Soils
 - Soil Stabilization
 - Soil Drying
 - Landscaping/Seeding
 - Irrigation
 - Conduit
 - Frost Law Load Limitations
 - Pavement Markings
 - Masonry Walls and Columns
 - Permanent Site Fencing and Gates
 - Bollard Installation
 - Permanent Site Signage
 - Site Furnishings
 - Support of Excavation is **BY OTHERS**



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To: RK Davis	Contact:
Address: 4457 40th St. SE Kentwood, MI 49512	Phone: 616-456-0059 Fax:
CO Name: MH J - Additional 8" DR Fittings (RFI 48, 50)	CO ID: 20
Project Name: COGL WWTP - 4.8.25	CO Date: 4/7/2025
Project Location:	

Per RFI 48 and 50 and email dated 10.31.25; this Change Proposal is for the additional 8" DR fittings required for the line to enter MH-J.

<p>ACCEPTED: The above prices, specifications and conditions are satisfactory and hereby accepted.</p> <p>Buyer: _____</p> <p>Signature: _____</p> <p>Date of Acceptance: _____</p>	<p>CONFIRMED: E. T. MacKenzie Company</p> <p>Authorized Signature: _____</p> <p>Estimator: Caleb Shillinger 517-627-8408 cshillinger@mackenzieco.com</p>
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To: RK Davis	Contact:
Address: 4457 40th St. SE Kentwood, MI 49512	Phone: 616-456-0059 Fax:
CO Name: Field Order 12 - RWLS 8" Drain	CO ID: 25
Project Name: COGL WWTP - 4.8.25	CO Date: 4/7/2025
Project Location:	

This Change Proposal is for Field Order 12, dated 11.24.25.

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
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14.0 - Field Order 12

05.0 - Site Utilities

1	Install 08" SDR26 45.00 Ell	2.00	EACH	\$738.23	\$1,476.46
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Total Price for above 05.0 - Site Utilities Items: \$1,476.46



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To:	RK Davis	Contact:	
Address:	4457 40th St. SE Kentwood, MI 49512	Phone:	616-456-0059
CO Name:	Field Order 12 - RWLS 8" Drain	Fax:	
Project Name:	COGL WWTP - 4.8.25	CO ID:	25
Project Location:		CO Date:	4/7/2025

This Change Proposal is for Field Order 12, dated 11.24.25.

Notes:

- The following items are excluded from this proposal:
 - Permits
 - Bonds - **PLM BONDS ONLY**
 - Fees
 - Engineering
 - Surveying
 - Layout - **FOR OUR WORK ONLY**
 - As-Built Drawings - **REDLINES ONLY**
 - Road Certification
 - Geotechnical Engineering
 - Geotechnical Testing
 - Quality Control Testing
 - Environmental Testing
 - Environmental Monitoring
 - Dewatering - **PROVIDED FOR OUR PIPE INSTALLATION ONLY**
 - Hazardous Material Handling and Disposal
 - Contaminated Material Handling and Disposal
 - Handling Spoils Produced by Others
 - Foundation Excavation and Backfill - **ONLY AS NOTED IN PROPOSAL**
 - Structural Concrete
 - Franchised Utility Installation
 - Franchised Utility Relocation
 - Franchised Utility Demolition
 - Well Removal / Abandonment
 - Wetland Mitigation and Associated Work
 - Exporting Excess Soils - **ONLY THOSE GENERATED BY OUR WORK**
 - Importing Fill Soil
 - Undercutting Unsuitable Soils
 - Soil Stabilization
 - Soil Drying
 - Landscaping/Seeding
 - Irrigation
 - Conduit
 - Frost Law Load Limitations
 - Pavement Markings
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 - Site Furnishings
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To: RK Davis	Contact:
Address: 4457 40th St. SE Kentwood, MI 49512	Phone: 616-456-0059 Fax:
CO Name: Field Order 12 - RWLS 8" Drain	CO ID: 25
Project Name: COGL WWTP - 4.8.25	CO Date: 4/7/2025
Project Location:	

This Change Proposal is for Field Order 12, dated 11.24.25.

<p>ACCEPTED: The above prices, specifications and conditions are satisfactory and hereby accepted.</p> <p>Buyer: _____</p> <p>Signature: _____</p> <p>Date of Acceptance: _____</p>	<p>CONFIRMED: E. T. MacKenzie Company</p> <p>Authorized Signature: _____</p> <p>Estimator: Caleb Shillinger 517-627-8408 cshillinger@mackenzieco.com</p>
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FIELD ORDER NO.: 12
RAW WASTEWATER LIFT STATION 8" DRAIN ELEVATION REVISION

Title:	RWLS 8" DR Elevation Revision	Owner's Project No.:	N/A
Owner:	City of Grand Ledge	Engineer's Project No.:	20221119
Engineer:	Hubbell, Roth & Clark	Contractor's Project No.:	
Contractor:	RK Davis Inc.		
Project:	Wastewater Treatment Plant Improvements		
Contract Name:	Wastewater Treatment Plant Improvements		
Date Issued:	11/24/25	Effective Date of Field Order:	11/24/25

Contractor is hereby directed to promptly perform the Work described in this Field Order, issued in accordance with Paragraph 11.04 of the General Conditions, for minor changes in the Work without changes in Contract Price or Contract Times. If Contractor considers that a change in Contract Price or Contract Times is required, submit a Change Proposal before proceeding with this Work.

Description:

Based on field verification from the contractor, the duct bank elevation is 791.28 top and 789.25 bottom. Revise pipe centerline elevation for the 8" DR line in the Raw Wastewater Lift Station from 790.33 to 788.66 to avoid the existing electrical duct bank.

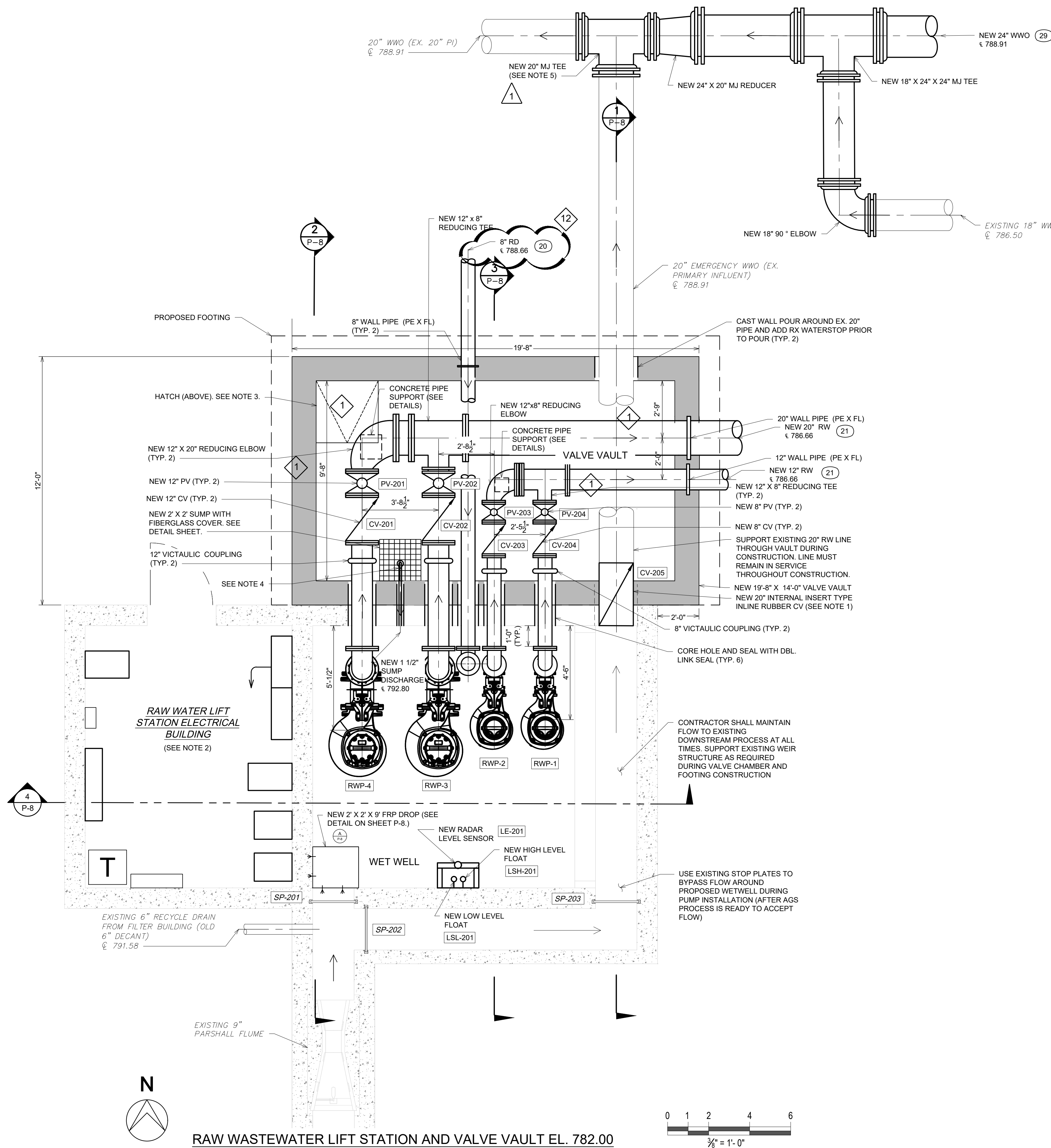
1. Install two 45 degree bends fittings south of the upstream manhole to achieve the elevation change

Attachments:

- Sheet P-7

Issued by Engineer

By: Douglas Urquhart, P.E.
Title: Associate
Date: 11/24/25



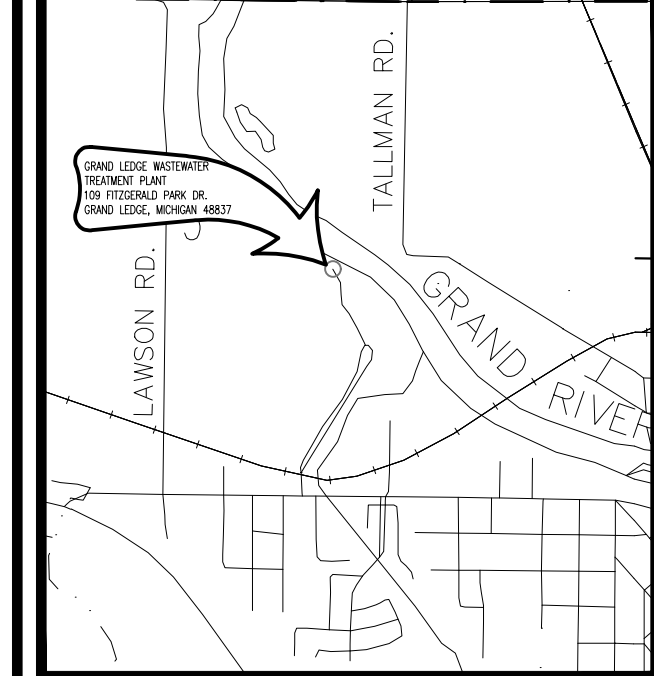
- NOTES:
- 20" INLINE RUBBER CHECK VALVE SHALL BE INSERT TYPE INSTALLED WITHIN THE EXISTING PIPELINE.
 - FORMER GRIT BUILDING. SEE ELECTRICAL SHEETS FOR ELECTRICAL LAYOUT.
 - ACCESS HATCH SHALL BE SINGLE LEAF 36" x 36" WITH OPENING THROUGH SLAB AND SHALL BE ALUM. H-20 RATED. (SEE SHEET S-8 FOR HATCH LOADING REQUIREMENTS)
 - NEW LIBERTY SUBMERSIBLE SUMP PUMP MODEL 257 WITH 1 1/2 INCH DISCHARGE RATED FOR 25 GPM AT 15 FT AND 1/3 HP. (5.2 AMPS, 115 VOLT, 1 PHASE, 60 HZ).
 - EXISTING 20" 90° ELBOW MUST REMAIN UNTIL THE END. SEE SPEC SECTION 01950 FOR SEQUENCE OF CONSTRUCTION.



HRC
HUBBELL, ROTH & CLARK, INC
 CONSULTING ENGINEERS SINCE 1915
 2101 AURELIUS RD SUITE 2
 HOLT, MI 48842
 PHONE: (517) 694-7760
 WEB SITE: www.hrcengr.com

DATE	ADDITIONS AND/OR REVISIONS
11-24-2025	FIELD ORDER NO. 12
07-24-2025	FIELD ORDER NO. 1
05-15-2025	ISSUED FOR CONSTRUCTION
03-18-2025	ADDENDUM NO. 1
03-06-2025	ISSUED FOR BIDS
01-31-2025	FINAL EGLE REVIEW
01-10-2025	INTERNAL QAQC
11-25-2024	DRAFT EGLE REVIEW
11-08-2024	60% OWNER REVIEW
08-06-2024	30% OWNER REVIEW

DESIGNED	D.I.U.
DRAWN	S.R.P.
CHECKED	D.I.U.
APPROVED	T.J.S.

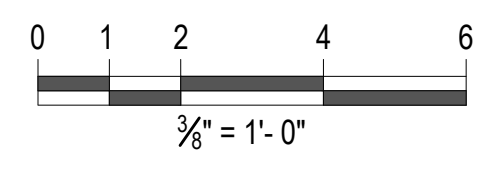


CITY OF GRAND LEDGE
WASTEWATER TREATMENT
PLANT IMPROVEMENTS

RAW WASTEWATER
LIFT STATION
PLANS

HRC JOB NO. 20221119	SCALE AS SHOWN
DATE MAY 2025	SHEET NO. P-7

RAW WASTEWATER LIFT STATION AND VALVE VAULT EL. 782.00





OOSTERHOUSE MASONRY

4343 108TH STREET SE
CALEDONIA, MI 49316-9427
(616) 891-1023 • CELL (616) 292-4385
igoosterhouse@ymail.com

PRO	RK Davis 4457 40th ST SE Grand Rapids, MI 49512	PHONE	DATE 12-09-2025
STRI		JOB NAME	Grand Ledge WWTP Improvements
CITY		JOB LOCATION	
ARCHITECT	DATE OF PLANS	Attn: Peter Elzinga	

We hereby submit specifications and estimates for:

Change 2" Polystyrene 1.59 sq foot w tax 1.655
to 2" Poly ISO \$1.90 sq foot w tax \$2.098
Difference 0.4138 x 7500 = 3103.

There is 7500 sq feet.
can only ship to bunks total extra \$3400.00

eranked 12/9 and 12/12

December 12 - 2025
Change from Burnished 4"x8"x16" to smooth
non white material in 4"x8"x16"
deduct \$1,890.00
Lude Oosterhouse

We Propose hereby to furnish material and labor — complete in accordance with above specifications, for the sum of

dollars (\$ 3,400.00)

Payment to be made as follows:

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Authorized Signature

Lude Oosterhouse

Note: This proposal may be withdrawn by us if not accepted within _____ days

Acceptance of Proposal — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature _____

Date of Acceptance: _____

Signature _____



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Grand Ledge, MI 48837

Phone: (517) 627.8408 Fax: (517) 627.4470
www.mackenzieco.com

To: RK Davis	Contact:
Address: 4457 40th St. SE Kentwood, MI 49512	Phone: 616-456-0059
CO Name: Field Order 14 - Diversion Chamber Location Discrepancy	Fax:
Project Name: COGL WWTP - 4.8.25	CO ID: 29
Project Location:	CO Date: 4/7/2025

This Change Proposal is for Field Order 14, dated 12.29.25.

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
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17.0 - Field Order 14

05.0 - Site Utilities

1	6" CL54 PW Reroute	9.00	LF	\$282.43	\$2,541.87
2	8" RD Reroute	8.00	LF	\$181.72	\$1,453.76
3	MH-H Replacement	1.00	EACH	\$1,807.27	\$1,807.27

Total Price for above 05.0 - Site Utilities Items: \$5,802.90

Total Price for above 17.0 - Field Order 14 Items: \$5,802.90



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To:	RK Davis	Contact:	
Address:	4457 40th St. SE Kentwood, MI 49512	Phone:	616-456-0059
CO Name:	Field Order 14 - Diversion Chamber Location Discrepancy	Fax:	
Project Name:	COGL WWTP - 4.8.25	CO ID:	29
Project Location:		CO Date:	4/7/2025

This Change Proposal is for Field Order 14, dated 12.29.25.

Notes:

- The following items are excluded from this proposal:
 - Permits
 - Bonds - **PLM BONDS ONLY**
 - Fees
 - Engineering
 - Surveying
 - Layout - **FOR OUR WORK ONLY**
 - As-Built Drawings - **REDLINES ONLY**
 - Road Certification
 - Geotechnical Engineering
 - Geotechnical Testing
 - Quality Control Testing
 - Environmental Testing
 - Environmental Monitoring
 - Dewatering - **PROVIDED FOR OUR PIPE INSTALLATION ONLY**
 - Hazardous Material Handling and Disposal
 - Contaminated Material Handling and Disposal
 - Handling Spoils Produced by Others
 - Foundation Excavation and Backfill - **ONLY AS NOTED IN PROPOSAL**
 - Structural Concrete
 - Franchised Utility Installation
 - Franchised Utility Relocation
 - Franchised Utility Demolition
 - Well Removal / Abandonment
 - Wetland Mitigation and Associated Work
 - Exporting Excess Soils - **ONLY THOSE GENERATED BY OUR WORK**
 - Importing Fill Soil
 - Undercutting Unsuitable Soils
 - Soil Stabilization
 - Soil Drying
 - Landscaping/Seeding
 - Irrigation
 - Conduit
 - Frost Law Load Limitations
 - Pavement Markings
 - Masonry Walls and Columns
 - Permanent Site Fencing and Gates
 - Bollard Installation
 - Permanent Site Signage
 - Site Furnishings
 - Support of Excavation is **BY OTHERS**



Equal Opportunity Employer

E.T. MacKenzie Company - Grand Ledge

One of The MacKenzie Companies

4248 West Saginaw Highway

Grand Ledge, MI 48837

Phone: (517) 627.8408 Fax: (517) 627.4470

www.mackenzieco.com

To: RK Davis	Contact:
Address: 4457 40th St. SE Kentwood, MI 49512	Phone: 616-456-0059 Fax:
CO Name: Field Order 14 - Diversion Chamber Location Discrepancy	CO ID: 29
Project Name: COGL WWTP - 4.8.25	CO Date: 4/7/2025
Project Location:	

This Change Proposal is for Field Order 14, dated 12.29.25.

<p>ACCEPTED: The above prices, specifications and conditions are satisfactory and hereby accepted.</p> <p>Buyer: _____</p> <p>Signature: _____</p> <p>Date of Acceptance: _____</p>	<p>CONFIRMED: E. T. MacKenzie Company</p> <p>Authorized Signature: _____</p> <p>Estimator: Caleb Shillinger 517-627-8408 cshillinger@mackenzieco.com</p>
---	--



	Project Name:	GL WWTP Improvements	ETMC JN:	12517		
	Project Address	109 Fitzgerald Park Dr. Grand Ledge MI	Date of Work	12/15/2025	To:	12/16/2025
	Description of Work Performed:	The existing 12" PEWW line was in conflict with the new 20" RW line on the south side of the influent channel. Per Caleb and Doug U. conversation, E.T. MacKenzie was going to reroute the 12" PEWW line above the new 20" RW line. It was backfilled with 6AA Limestone. This was tracked T&M between two separate days.				

Labor Costs (Crew Description)	Reg. Labor HRs	OT Hours	Reg. Labor Rate	OT Labor Rate	Reg. Cost	OT Costs	Total Labor Costs
Laborer	10.00	-	\$ 120.00	\$ -	\$ 1,200.00	\$ -	\$ 1,200.00
Foreman W/ Pickup Truck	5.00	-	\$ 160.00	\$ -	\$ 800.00	\$ -	\$ 800.00
Operator	3.50	-	\$ 120.00	\$ -	\$ 420.00	\$ -	\$ 420.00
Labor Totals:	18.50	-			\$ 2,420.00	\$ -	\$ 2,420.00

Equipment Costs (Description / Equip. No. / Attachment)	Base Equip. HRs	Attachment Hours	Base Equip. Rate	Attachment Rate	Base Equip. Cost	Attachment Costs	Total Equip. Costs
CAT 352 Excavator, 10272, Operated	5.00		\$ 420.00	\$ -	\$ 2,100.00	\$ -	\$ 2,100.00
Volvo L110H Loader, 10932, Operated	5.00	-	\$ 270.00	\$ -	\$ 1,350.00	\$ -	\$ 1,350.00
Total Equipment Costs:	10.00	-			\$ 3,450.00	\$ -	\$ 3,450.00

Trucking Costs (Load Description / truck No. / Train, Lead or Lowboy)	Date	Ticket Number	Start Time	Stop Time	Truck Hrs	Trucking Rate	Total Trucking Costs
Trucking Totals:					-		\$ -

Materials Costs (Description)	Invoice Number	Qty	UM	Cost/UM	Sub Total	Sales Tax	15% Markup	Total (W/15% Markup)
12" DIP, CL54, PJ	J048218	20.00	LF	\$ 87.260	\$ 1,745.20	\$ 104.71	\$ 261.78	\$ 2,111.69
12" MJ 45 Bend	J048218	4.00	EA	\$ 460.930	\$ 1,843.72	\$ 110.62	\$ 276.56	\$ 2,230.90
12" Megalug	J048218	6.00	EA	\$ 128.660	\$ 771.96	\$ 46.32	\$ 115.79	\$ 934.07
12" Bolt Pack	J048218	6.00	EA	\$ 63.380	\$ 380.28	\$ 22.82	\$ 57.04	\$ 460.14
12" Foster MJ Adaptor	J048218	2.00	EA	\$ 296.61	\$ 593.22	\$ 35.59	\$ 88.98	\$ 717.80
12" Solid Sleeve, Long, MJ	J048302	1.00	EA	\$ 364.660	\$ 364.66	\$ 21.88	\$ 54.70	\$ 441.24
6AA Limestone Aggregate		10.00	TON	\$ 42.86	\$ 428.60	\$ 25.72	\$ 64.29	\$ 518.61
Material Totals:					\$ 6,127.64	\$ 367.66	\$ 919.15	\$ 7,414.44

Cost Category	Category Subtotal
Labor	\$ 2,420.00
Equipment	\$ 3,450.00
Trucking	\$ -
Materials	\$ 7,414.44
Total Cost of Work Performed:	\$ 13,284.44



MacKenzie Companies
Project Daily Report

MACKENZIE
companies

Utility Damage	<input type="checkbox"/> YES <input type="checkbox"/> NO	Was a report submitted?	<input type="checkbox"/> YES <input type="checkbox"/> NO
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Project No.	Project Name	Sheet No.	Day / Date	Weather / Temp
	12517		TUESDAY 12/16/25	

Position	Employee Name	Start Time	Break	End Time	Labor Hours	Equip. Hours	Equip. No & Description	Phase Code	Hours	Phase Code	Hours	Phase Code	Hours
	SEAN ONEIL	730	30	400		8.5							
LABORER	PAT WEST	730	30	400	8.5								
OPERATOR	JR JASMIN	730	30	400		8.5	10272						
OPERATOR	JAKE MCLEAN	730	30	400		8.5	10932						
OPERATOR	DAVE STANAWAY	730	30	400		8.5							
LABORER	CAISIA BONILLA	730	30	400	8.5								
<div style="border: 2px solid red; padding: 5px;"> <p>- T+M 900-1100 DIG AROUND AND CUT OUT 12" PEWW LINE 10272 10932</p> </div>													
<p>- ADD 14' PIECE OF 20" DI ONTO 20" COMING OUT OF CASING + 90° ELBOW > SOUTH SIDE</p> <p>- ADD 17.5' PIECE OF 12" DI ONTO 12" COMING OUT OF CASING + 90° ELBOW > OF WALL</p>													
<div style="border: 2px solid red; padding: 5px;"> <p>= T+M 1:45-3:15 - ADDED 2.5' OF 12" D.I. AND 12" SLEEVE TO CAP SET WE PUT TOGETHER YESTERDAY 10272 10932 - SET OFFSET, BACKFILL W/ STONE</p> </div>													
607	20" DI RW	-	14'										
604	12" DI RW	-	17.5'										

Day 2 of working on 12" PEWW line reroute. Full crew worked for total of 3.50 hours today.

Foreman: 3.50hrs
Laborer: 7.00hrs total
Operator: 3.50hrs
10272: 3.50hrs
10932: 3.50hrs

Material List used today.

Subcontractors	Visitors	Inspectors	Testing Companies
----------------	----------	------------	-------------------

Extra Work Orders	~TRUCKING~							Soil Erosion Report: Were there any repairs performed? Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Truck No.	Time In	Time Out	Off-Site	On-Site	Material	Qty.	Comments?	Yes <input type="checkbox"/> No <input type="checkbox"/>
No.				<input type="checkbox"/>	<input type="checkbox"/>				
				<input type="checkbox"/>	<input type="checkbox"/>				
				<input type="checkbox"/>	<input type="checkbox"/>				
				<input type="checkbox"/>	<input type="checkbox"/>				
				<input type="checkbox"/>	<input type="checkbox"/>				
				<input type="checkbox"/>	<input type="checkbox"/>				

Have all soil erosion features on this project been inspected? Yes No

Have all necessary repairs been made? Yes No

Signature: _____

Signed by Certified Storm Water Operator - # _____

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Fax 517-764-9754

SAGINAW 195 KICHVILLE ROAD SAGINAW, MI 48601 PHONE (517) 764-9751 Saginaw@michiganpipe.com	JACKSON 3624 PAGE AVENUE JACKSON, MI 49203 PHONE (517) 764-9151 Jackson@michiganpipe.com	TRAVERSE CITY 487 W. WELCH COURT TRAVERSE CITY, MI 49686 PHONE (231) 929-7473 TraverseCity@michiganpipe.com	MT. PLEASANT 1314 S. ANSON ROAD MT. PLEASANT, MI 48854 PHONE (517) 837-4331 MTPleasant@michiganpipe.com	GENESEE 1217 E STANLEY RD MT MORRIS, MI 48858 PHONE (810) 547-2114 Geneesendistrict@michiganpipe.com
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Sold To
E T MACKENZIE
4248 E SAGINAW
GRAND LEDGE MI 48837

Ship To
GRAND LEDGE WWTP
109 FITZGERALD PARK DR.
GRAND LEDGE MI 48837

Customer # 0001128	Order Date 04/21/2025	Sales Order # J050548-21	Buyer	Customer P/O # GL WWTP	Ship Via MPV TRUCK	Salesman KR
Invoice # J048218	Invoice Date 12/08/2025	Ship Date 12/03/25	Freight Terms PREPAID	Job Number	Terms NET 30 DAYS	

LN	QNTY ORD	QNTY SHIP	QNTY B/O	PRODUCT NUMBER	DESCRIPTION	UOM	NET PRICE	EXTENSION
***** Invoice Message ***** Quote Number QJ18665 *****								
DUCTILE IRON.....								
52	12	4	1	544105	12 LUG GLD DI FORD 1400-D BLK USA	EA	✓ 128.66	\$514.64
53	12	4	1	SP*00016014	12 MJ BLUE BOLT/GASKET PACK USA	EA	✓ 63.38	\$253.52
Total: DUCTILE IRON.....								\$768.16
50	20	20		101071	12 DI PIPE CL54 TYTON W/ACC CL 20'	FT	✓ 87.26	\$1745.20
20	4	4		181131	12 MJ 45 BEND C153 L/ACC USA	EA	46.93 625.56	\$2502.24
21	4	4		SP*007668	12 TJ SBR BARRACUDA GSK	EA	178.27	\$713.08
22	3	3		543020	12 FOSTER MJ ADPT EPOXY W/ACC	EA	296.61	\$889.83
23	220	220		681012	27 POLYWRAP 10-12 DIP 22' 440'RL WRP-27440B-22AW	FT	1.01 0.52	\$222.20

REC'D DEC 09 2025
DEC 15 2025
DUE
AMT 7251.15
JCB 12517 CC EXT
G/L# FOR
RLT/<DIS> EST
APPROVED

Sent Copy

Michigan Pipe & Valve ACH Payment is preferred. Contact us at 517-764-9750 for information. Mail payments to PO Box 4370, Jackson, MI 49204-4370 MICHIGAN PIPE & VALVE - JACKSON
Terms & Conditions
All returns require prior approval, are subject to restocking charge, and must be returned within 30 days. Special order items are nonrefundable. 1.5%/month finance charge on invoices over 30 days

Merchandise	6,840.71
Freight	0.00
Misc Charges	0.00
Sub Total	6,840.71
Taxable	6,840.71
Tax (01)	410.44
TOTAL	\$7,251.15

Pay By 01/07/2026

Writer: KR



MICHIGAN PIPE & VALVE

Sales Order Recap

MICHIGAN PIPE & VALVE - JACKSON
3604 PAGE AVENUE
JACKSON, MI 49203

PHONE: 517.764.9151
EMAIL: jackson@michiganpipe.com



16:35 12/16/25 KR

Page 1/2

BR/WHSE USER
01/01 KR

S E T MACKENZIE
O T 4248 E SAGINAW
L O GRAND LEDGE MI 48837
D

S E T MACKENZIE
H T PICKED UP AT MPV-JACKSON
I O 3604 PAGE AVE
P JACKSON MI 49202

Tel 517-627-8408

Fax 517-622-3799

Tel 517-627-8408

Attn

ORDER DATE	CUSTOMER NUMBER	CUSTOMER NUMBER	P/O	TERMS CODE	TAX CODE	SHIP VIA	SALES PERSON	JOB ID/NAME
12/16/25	0001128	CREDIT		NET 30 DAYS	01/6.000%	CUSTOMER P/U	KYLE RICHMOND	

LN#	Q-ORD	Q-SHP	Q-PCK	Q-B/O	PRODUCT	UOM	UNIT-PRICE	DISC%	EXTENSION
1)	-4	0	-4	0	181131 12 MJ 45 BEND C153 L/ACC USA Return from Invoice # J048218 Return to Stock	EA	625.56		-2,502.24
2)	4	0	4	0	181131 12 MJ 45 BEND C153 L/ACC USA	EA	460.93		\$1,843.72
3)	-220	0	-220	0	681012 27 POLYWRAP 10-12 DIP 22' 440'RL WRP-27440B-22AW Return from Invoice # J048218 Return to Stock	FT	1.01		\$-222.20
4)	220	0	220	0	681012 27 POLYWRAP 10-12 DIP 22' 440'RL WRP-27440B-22AW	FT	0.52		\$114.40
5)	-1	0	-1	0	181046 20 MJ 90 BEND C153 L/ACC USA Return from Invoice # J048219 Return to Stock	EA	2554.06		-2,554.06
6)	1	0	1	0	181046 20 MJ 90 BEND C153 L/ACC USA	EA	2419.63		\$2,419.63

Correct pricing for 12" MJ 45 bend

Sub-Total	-900.75
Freight	0.00
Misc Charge	...	0.00
Tax	-54.05
Order Total	...	-954.80
Paid	0.00

Continue...

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Sold To
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GRAND LEDGE MI 48837

Ship To
GRAND LEDGE WWTP
109 FITZGERALD PARK DR.
GRAND LEDGE MI 48837

Customer # 0001128	Order Date 04/21/2025	Sales Order # J050548-23	Buyer	Customer P/O # GL WWTP	Ship Via MPV TRUCK	Salesman KR
Invoice # J048302	Invoice Date 12/16/2025	Ship Date 12/12/25	Freight Terms PREPAID	Job Number	Terms NET 30 DAYS	

LN	QNTY ORD	QNTY SHIP	QNTY B/O	PRODUCT NUMBER	DESCRIPTION	UOM	NET PRICE	EXTENSION
					***** Invoice Message ***** Quote Number QJ18665 *****			
					DUCTILE IRON.....			
43	3	1		181026	12 MJ 90 BEND C153 L/ACC USA	EA	✓ 580.03	\$580.03
46	2	1		182696	12X2 MJ TAPT CAP C153 L/ACC USA	EA	✓ 222.72	\$222.72
50	12	10		544105	12 LUG GLD DI FORD 1400-D BLK USA	EA	✓ 128.66	\$1286.60
51	12	10		SP*00016014	12 MJ BLUE BOLT/GASKET PACK USA	EA	✓ 63.38	\$633.80
					Total: DUCTILE IRON.....			\$2,723.15
37	1	1		182586	12 MJ SOLID SLEEVE LG C153 L/ACC USA	EA	✓ 364.66	\$364.66
45	1	1		182806	12X2 MJ TAPT PLUG C153 L/ACC USA	EA	✓ 339.28	\$339.28
					PVC.....			
01	1750	70	406	111012	8 SDR26 PIPE HW SEWER GSK 14'	FT	✓ 10.84	\$758.80
07	12	12		261025	12X6 SDR26 HW TEE GXG	EA	✓ 287.06	\$3444.72
					Total: PVC.....			\$4,203.52
08	8	8		SP*00016757	12X6 SDR26 CROSS H17912-6	EA	✓ 640.34	\$5122.72
18	60	60		101071	12 DI PIPE CL54 TYTON W/ACC CL 20'	FT	113.91 873.6	\$6834.60
19	2	2		181131	12 MJ 45 BEND C153 L/ACC USA	EA	460.83 625.56	\$1251.12
20	2	2		551020	12 TJ FIELD LOK GSK	EA	✓ 179.84	\$359.68

[CONTINUED]



12" PEWW Line Conflict at 20" RW

From Urquhart, Douglas <DUrquhart@hrcengr.com>

Date Wed 12/3/2025 9:32 AM

To Caleb Shillinger <cs@mackenzieco.com>

Cc pelzinga@rkdavis.us <pelzinga@rkdavis.us>; Rob Kaliniak <rkaliniak@rkdavis.us>; Dean Dunsmore <ddunsmore@rkdavis.us>; Arseneault, Joel <JArseneault@hrcengr.com>; Cole, Joshua <JCole@hrcengr.com>; Smith Sydney <SSmith@hrcengr.com>

Caleb,

Just to follow up on our call this morning, we're good with using 12" 45-deg fittings to install the 12" PEWW above the 20" RW line in conflict. This 12" PEWW pipe is used for flushing the retention tank below the headworks building and sees a maximum pressure of 3 psi of plant effluent water. The WWTP has the ability to isolate this temporarily but please coordinate with the WWTP to make sure the isolation valves are closed at the chlorine contact tanks.

Regards,

Doug U.

Douglas Urquhart, P.E. | Associate

HUBBELL, ROTH & CLARK, INC

1925 Breton Road SE, Suite 100, Grand Rapids, MI 49506

O: 616-432-6199|M: 616-481-1472

