



November 21, 2025

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 02

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 2:

CP-06	Gate Valve Credit	Decrease	\$(4,882.08)
CP-07	Additional Silt Sacks Required for SESC	Increase	\$2,075.63
CP-10	Exploration of 6" RD line at Biosolids Tank	Increase	\$6,745.53
CP-12	Additional costs for sidewalk removal required for the sludge processing building, additional excavation for the deeper 8" WAS line, and additional excavation for the scum line	Increase	\$18,875.78
CP-13	4' manhole cone to address conflict with the final grade elevation	Increase	\$2,314.31
CP-14	RFI 39 - Tank Drains for the Tertiary Filters	Increase	\$20,639.36
Net Contract Change		Increase	\$45,768.53

We find the Contractor's added costs and credits and contract extension of 1 day 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
HRC; T. Sneathen, J. Cole, File

From: [Caleb Shillinger](#)
To: [Peter Elzinga](#)
Cc: [Rob Kaliniak](#)
Subject: Plug Valve Credit - GL WWTP
Date: Thursday, September 11, 2025 1:16:58 PM
Attachments: [image.png](#)

Peter,

Here is the credit amount that was requested from Doug for the (4) Plug Valves that were switched to Gate Valves. Please forward to HRC.

Description	Qty	UM	Unit Price	Total
AIS Compliant Plug Valves (HESCO)	(4)	Ea.	\$2,004.48	(\$8,017.92)
AIS Compliant Gate Valves (MPV)	4	Ea.	\$783.96	\$3,135.84
			Total Credit:	(\$4,882.08)

Thanks,



Caleb Shillinger

Project Manager – Estimator, E.T. MacKenzie Company
(517) 627.8408 ofc | (517) 290.9555 cell | www.mackenzieco.com



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:	Additional Silt Sacks - RFI 32	Fax:	
Project Location:		CO ID:	08
		CO Date:	4/7/2025

This Change Order Proposal is for the additional silt sacks required by HRC in RFI 32.

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
--------	------------------	--------------------	------	------------	-------------

09.0 - Additional Silt Sacks

02.0 - Soil Erosion Controls

1	Additional Silt Sacks	10.00	EACH	\$185.00	\$1,850.00
---	-----------------------	-------	------	----------	------------

Total Price for above 02.0 - Soil Erosion Controls Items: \$1,850.00



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: Additional Silt Sacks - RFI 32	CO ID: 08
Project Location:	CO Date: 4/7/2025

This Change Order Proposal is for the additional silt sacks required by HRC in RFI 32.

Notes:

- The following items are excluded from this proposal:
 - Permits
 - Bonds
 - 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
 - Hazardous Material Handling and Disposal
 - Contaminated Material Handling and Disposal
 - Handling Spoils Produced by Others
 - Foundation Excavation and Backfill
 - 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
 - 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 - **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
CO Name: Additional Silt Sacks - RFI 32	Fax:
Project Location:	CO ID: 08
	CO Date: 4/7/2025

This Change Order Proposal is for the additional silt sacks required by HRC in RFI 32.

<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: _____</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------



Project Name: GL WWTP Improvements	ETMC JN: 12517	
Project Address: 109 Fitzgerald Park Dr. Grand Ledge MI	Date of Work: 8/27/2025	To: 8/27/2025
Description of Work Performed: Exploratory excavation for RD line to tie into MH A. Per Dave Gutchesch, the faint line on C-08 tied into the RD line. E.T. Mackenzie excavated along the existing RD line and did not find it. It was later told to E.T. Mackenzie by another city employee, that the line was not put in per the as-built but was rather plumbed directly into the other storage tank.		

Labor Costs (Crew Description)	Reg. Labor Hrs	OT Hours	Reg. Labor Rate	OT Labor Rate	Reg. Cost	OT Costs	Total Labor Costs
Foreman W/ Truck	3.00	-	\$ 160.00	\$ -	\$ 480.00	\$ -	\$ 480.00
Pipe Layer	6.00	-	\$ 120.00	\$ -	\$ 720.00	\$ -	\$ 720.00
Laborer	6.00	-	\$ 120.00	\$ -	\$ 720.00	\$ -	\$ 720.00
Labor Totals:	15.00	-			\$ 1,920.00	\$ -	\$ 1,920.00

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 314ELCR Excavator, 10206, Operated	3.00	-	\$ 245.00	\$ -	\$ 735.00	\$ -	\$ 735.00
CAT D3 Dozer, 10302, Operated	3.00	-	\$ 200.00	\$ -	\$ 600.00	\$ -	\$ 600.00
Komatsu WA 380 Loader, 10920, Operated	3.00	-	\$ 270.00	\$ -	\$ 810.00	\$ -	\$ 810.00
A30G Volvo Off Road Truck, 10665, Operated	3.00	-	\$ 380.00	\$ -	\$ 1,140.00	\$ -	\$ 1,140.00
A30G Volvo Off Road Truck, 10664, Operated	3.00	-	\$ 380.00	\$ -	\$ 1,140.00	\$ -	\$ 1,140.00
Total Equipment Costs:	15.00	-			\$ 4,425.00	\$ -	\$ 4,425.00

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/Ticket Number	Qty	UM	Cost/UM	Sub Total	15% Markup	Total (W/15% Markup)
Material Totals:			TON				

Cost Category	Category Subtotal
Labor	\$ 1,920.00
Equipment	\$ 4,425.00
Trucking	\$ -
Materials	\$ -
Total Cost of Work Performed:	\$ 6,345.00



ETMCO PROJECT NUMBER
ETMCO PROJECT NAME
DAY / DATE

12517
G.L. WWIP

OFFICE USE ONLY

UTILITY DAMAGE?
REPORT SUBMITTED?

YES
YES

NO
NO

Phil at Grand Ledge Shop / Yard at 6:00

Phil and Crew on site at 7:00

Tommy used the 315 excavator to start an exploratory excavation to find the existing force main and gravity sewer at our tie in points

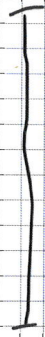
after finding the force main Phil and crew tried to expose the gravity sewer leaving the tanks and could not find were the south tanks line exited the tank 9:00-12:00 exploratory excavation full crew

After finding all lines Phil and crew resumed install of 8" San and 6" Gravity

Work continued until 6:00

End of dy 6:00

40' of 6" Force main



28' of 8" SAN





Project Name: GL WWTP Improvements
Project Address: 109 Fitzgerald Park Dr. Grand Ledge MI
ETWC JN: 12517
Date of Work: 7/25/2025
To: 7/30/2025

Description of Work Performed:
 Removal of concrete sidewalk, excavated for 4" scum line, topoed existing lines. This work was approved by Josh Cole (HRC) via email on 07/24/2025.

Labor Costs (Crew Description)	Reg. Labor Hrs	OT Hours	Reg. Labor Rate	OT Labor Rate	Reg. Cost	OT Costs	Total Labor Costs
Foreman w/ Truck	21.50	-	\$ 160.00	\$ -	\$ 3,440.00	\$ -	\$ 3,440.00
Operator	12.50	-	\$ 120.00	\$ -	\$ 1,500.00	\$ -	\$ 1,500.00
Laborer	38.50	-	\$ 120.00	\$ -	\$ 4,620.00	\$ -	\$ 4,620.00
Surveyor	8.50	-	\$ 160.00	\$ -	\$ 1,360.00	\$ -	\$ 1,360.00
Labor Totals:	81.00	-			\$ 10,920.00	\$ -	\$ 10,920.00

Equipment Costs (Description / Equip. No. / Attachment)	Base Equip. Hrs	Attachment Hours	Base Equip. Rate	Attachment Rate	Base Equip. Cost	Attachment Costs	Total Equip. Costs
10200 Komatsu PC138 Excavator, Breaker Attachment	20.00	1.00	\$ 290.00	\$ 265.00	\$ 6,065.00	\$ -	\$ 6,065.00
Total Equipment Costs:	20.00	1.00			\$ 6,065.00	\$ -	\$ 6,065.00

Trucking Costs (Load Description / truck No. / Train, Lead or Lowboy)	Date	Ticket Number	Start Time	Stop Time	Truck Hrs	Trucking Rate	Total Trucking Costs
Concrete Haul Away, Truck No.29, Lead	7/25/2025	B2853214	7:00 AM	10:30 AM	3.50	\$ 220.00	\$ 770.00
Trucking Totals:					3.50	\$ -	\$ 770.00

Materials Costs (Description)	Invoice/Ticket Number	Qty	UM	Cost/UM	Sub Total	15% Markup	Total (w/15% Markup)
Material Totals:			TON		\$ -	\$ -	\$ -

Category	Subtotal
Labor	\$ 10,920.00
Equipment	\$ 6,065.00
Trucking	\$ 770.00
Materials	\$ -
Total Cost of Work Performed:	\$ 17,755.00



Mackenzie Companies
Project Daily Report

Utility Damage: YES NO
 Was a report submitted?: YES NO

Project No. 12517 Project Name 61 Waste Water Sheet No. 7/25/25 Weather / Temp

Position	Employee Name	Start Time	Break	End Time	Labor Hours	Equip. Hours	Equip. No & Description	Phase Code	Hours	Phase Code	Hours	Phase Code
OPR	Kick Toews	8:00		12:00	4	5	10200 Digger					
LOB	Paul Peterson	8:00		1:00	5	4	10200 Digger					
LOB	Tom Hildebrandt	8:00		1:00	5							
	Nick Makara	8:00		11:00	3							
<p>Remove Concrete to locate Shalg lines & Utilities</p> <p>Tom</p> <p>Get a Time Sheet</p> <p>for cables</p>												

Subcontractors: _____ Inspectors: _____ Visitors: _____ Testing Companies: _____

Soil Erosion Report: Were there any repairs performed? Yes No
 Comments? Yes No

Have all soil erosion features on this project been inspected? Yes No
 Have all necessary repairs been made? Yes No
 Signature: _____

~TRUCKING~

Truck No.	Time In	Time Out	Off-Site	On-Site	Material	Qty.
			<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"/>		

Extra Work Orders

No. _____

Signed by Certified Storm Water Operator - # _____



Mackenzie Companies
Project Daily Report

Project No. 17517 GL Waste Water

Day / Date 7/29/25

Utility Damage YES NO Was a report submitted? YES NO

Position	Employee Name	Start Time	Break	End Time	Labor Hours	Equip. Hours	Equip. No & Description	Phase Code	Hours	Phase Code	Hours	Phase Code	Hours
OPR	Kirk Tracy	6:00		5:00	11	10	10280 Digger						
LSE	Mark S. [unclear]	6:30		4:30	10								
LSE	Tom H. [unclear]	6:30		4:00	9.5								
OPR	Nick Makson	6:30		4:00	9.5								
	Brack G. [unclear]	6:30		4:00	9.5								
<p>Continued Digging Gas Lines Tom At Curb</p>													
<p>Charged for 50% of this day. Over-excavation was required as the 8" line was approximately 5' deeper than shown on the plans. Exposed the 4" scum line this day.</p>													
Subcontractors													
Visitors													
Inspectors													
Testing Companies													

Soil Erosion Report: Were there any repairs performed? Yes No

Comments? Yes No

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 - # _____

~TRUCKING~

Truck No.	Time In	Time Out	Off-Site	On-Site	Material	Qty.
			<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"/>		

Extra Work Orders

No. _____



MacKenzie Companies
Project Daily Report

MACKENZIE
companies

Project No. **12517**

Project Name **06 Waste Water**

Day / Date **7/30/25**

Sheet No.

Weather / Temp

Utility Damage YES NO

Was a report submitted? YES NO

Position	Employee Name	Start Time	Break	End Time	Labor Hours	Equip. Hours	Equip. No & Description	Phase Code	Hours	Phase Code	Hours
OPR	Kirk Toew's	5:30		4:00	10.5	4	10800 Digger				
LBR	Nash Spitzley	6:30		3:00	8.5	4	10209 D.SCA				
LBR	Tom Hildebrandt	7:00		3:00	8	2	10388 Digger				
LBR	Gage Siverer	7:00		3:00	8						
LBR	Nick Makara	7:00		3:00	8						
<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p>Finished Locating Lines Settled Sludge Pipe Set Trunk Boxes TRM AT Cable Not a Time Sheet</p> </div>											
Subcontractors						Testing Companies					
Visitors						Inspectors					

Charged 2 total hours of the crew for 4" scum line testing.

Soil Erosion Report: Were there any repairs performed? Yes No

Comments? Yes No

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 - # _____

~ TRUCKING ~

Truck No.	Time In	Time Out	Off-Site	On-Site	Material	Qty.
			<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"/>		
			<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>		

Extra Work Orders

No. _____

LOAD AND TIME TICKET

B 2853214

NAME OF CARRIER

E. T. MAC KENZIE COMPANY
 4248 WEST SAGINAW HIGHWAY
 GRAND RAPIDS, MICHIGAN 49507
 PHONE: (616) 527-8400

COMMODITY (as further described in Carrier's Rate Tariff)

- | | | | |
|------------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> BIT. COLD PATCH MATL. | <input type="checkbox"/> CLAY | <input type="checkbox"/> GRAVEL | <input type="checkbox"/> SAND |
| <input type="checkbox"/> BLACK TOP, ETC. | <input type="checkbox"/> CONCRETE BATCH | <input type="checkbox"/> LIMESTONE | <input type="checkbox"/> SLAG |
| <input type="checkbox"/> BORROW MATERIAL | <input type="checkbox"/> DIRT | <input type="checkbox"/> MARL | <input type="checkbox"/> STONE |
| <input type="checkbox"/> CINDERS | <input type="checkbox"/> EARTH | <input type="checkbox"/> PEBBLES | <input type="checkbox"/> STONE CHIPS |
| <input type="checkbox"/> CONCRETE AGGREGATES | <input type="checkbox"/> FILL MATL. | <input type="checkbox"/> ROAD GRAVEL | |
| <input type="checkbox"/> OTHER <i>load</i> | <i>concrete</i> | | |

SECTION 1	M.P.S.C. TRUCK NO.	JOB TRUCK NO. <i>29</i>	DATE <i>7/17/85</i>
	NAME OF SHIPPER <i>GBS trucking</i>		
	FROM (LOADING PLACE) <i>12517</i>		
	TO (UNLOADING PLACE) <i>Chamberlin</i>		
	GROSS		NET OR ESTIMATED WEIGHT
TARE			

SEC. 2	(FOR TON-MILE RATED HAULS)			
	LOAD NO. <i>1</i>	LOADED MILES	RATE	CHARGES <i>20 yds</i>

SECTION 3	(FOR HOURLY RATED HAULS)					
		T I M E		HOURS	RATE	CHARGES
	REGULAR	START				
		FINISH				
	OVERTIME	START				
	FINISH					

SECTION 4	(FOR BOTH TON-MILE AND HOURLY HAULS)	
	DRIVER'S SIGNATURE <i>[Signature]</i>	AGENT FOR SHIPPER SIGNATURE <i>[Signature]</i>



Project Name: GL WWTP Improvements	12517	
Project Address: 109 Fitzgerald Park Dr. Grand Ledge MI	ETMC JN:	To: 10/1/2025
Date of Work		
Description of Work Performed:		
Excavated around MH A to switch the existing 2' cone for a 4' cone. This was required to raise the elevation of the structure to match existing grades. Approved by Joel Arseneault and Dean Dunsmore via phone calls on 09/30/2025.		

Labor Costs (Crew Description)	Reg. Labor Hrs	OT Hours	Reg. Labor Rate	OT Labor Rate	Reg. Cost	OT Costs	Total Labor Costs
Laborer	2.50	-	\$ 120.00	-	\$ 300.00	-	\$ 300.00
			\$ -	-	-	-	-
			\$ -	-	-	-	-
			\$ -	-	-	-	-
			\$ -	-	-	-	-
Labor Totals:	2.50	-			\$ 300.00	-	\$ 300.00

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 315 Excavator, 10203	3.50	-	\$ 245.00	-	\$ 857.50	-	\$ 857.50
CAT 950 Loader, 10950	1.00	-	\$ 270.00	-	\$ 270.00	-	\$ 270.00
			\$ -	-	-	-	-
			\$ -	-	-	-	-
Total Equipment Costs:	4.50	-			\$ 1,127.50	-	\$ 1,127.50

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/Ticket Number	Qty	U/M	Cost/U/M	Sales Tax	15% Markup	Total (w/15% Markup)
MH A - 4' Cone		1.00	EA	\$ 544.000	\$ 32.64	\$ 81.60	\$ 658.24
				\$ -	-	-	-
				\$ -	-	-	-
				\$ -	-	-	-
				\$ -	-	-	-
Material Totals:		1.00	EA				\$ 658.24

Cost Category	Category Subtotal	Labor	Equipment	Trucking	Materials	Total Cost of Work Performed:
	\$ 300.00					
	\$ 1,127.50					
	\$ -					
	\$ 658.24					
Total Cost of Work Performed:	\$ 2,085.74					