



### AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Change Order #1 Wastewater Digester Cleaning & Inspection		
Presenter & Title:	Bob Van Gyseghem, Superintendent of Water & Wastewater		
Date:	October 2, 2023		
<b>Please Check Appropriate Box:</b>			
<input type="checkbox"/>	Committee of the Whole Meeting	<input type="checkbox"/>	Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting	<input type="checkbox"/>	Special City Council Meeting
<input type="checkbox"/>	Public Hearing	<input type="checkbox"/>	Other -
Associated Strategic Plan Goal/Objective: EMS-II			
Estimated Cost: \$410,418.00	Budgeted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If "Other Funding," please explain how the item will be funded:</i>			
<b>Executive Summary:</b>			
<p>For the City Council's consideration, is a request to approve of Change Order #1 to the Wastewater Digester Cleaning &amp; Inspection contract. The change order is needed for additional sludge removal from the secondary digester that was in excess of the estimated amount in bid document &amp; necessary repairs to the secondary digester. Explanation of additional sludge removal costs and the repair cost to the secondary digester cover are provided in the attached documents. All costs associated with the change order may be accommodated within the existing budget and reflected in a future budget amendment, if necessary.</p>			
<b>Attachments:</b> <i>(please list)</i>			
<ul style="list-style-type: none"> <li>• Staff Memorandum</li> <li>• Resolution and Exhibits</li> </ul>			
<b>Voting Requirements:</b>			
<p><i>This motion requires a simple majority of affirmative votes for passage. (City Council Only)</i></p> <p><i>The Mayor may vote on three occasions: (a) when the vote of the alderpersons has resulted in a tie; (b) when one half of the alderpersons elected have voted in favor of an ordinance, resolution, or motion even though there is no tie vote; or (c) when a vote greater than a majority of the corporate authorities is required by state statute or local ordinance to adopt an ordinance, resolution, or motion.</i></p>			
<b>Recommendation / Suggested Action:</b> <i>(how the item should be listed on agenda)</i>			
Approval of Resolution No. 2023-105 Authorizing Execution of Change Order #1 with Boller Construction Co., Inc. for Cleaning and Inspection of Wastewater Treatment Plant Digesters increasing Total Contract Amount to \$1,388,618.			



## **Public Works Department**

### **Memorandum**

Boller Construction has completed the cleaning and inspection of the secondary digester at the Wastewater Treatment Plant. The inspection report described the overall condition of the 24 year old secondary digester as good with the exception of the floating cover. Last year the floating cover tilted which required staff to hire a contractor to re-align the cover.

No definitive cause could be given for the tilting of the cover. Over the past 20 years, the cover manufacturer has changed the design of the guide rails, which now capture the cover rollers for better alignment. Additional rollers are recommended to be mounted to the cover and lower skirt to help prevent future misalignment from occurring. Additionally, the tilting of the cover damaged the trusses that support the underside of the cover. They too will need to be repaired before the digester can be placed back into service. Baxter & Woodman Inc. has prepared the attached memo detailing those repairs.

When the specifications and bid document were developed, wastewater staff predicted the ability to transfer the volume of sludge in the secondary digester to about 4-feet above the cone section. During the transfer of sludge by staff, grit and other material was present at roughly 11-feet above the cone section. The unknown condition inside the digester resulted in an additional 177,269 gallons of sludge removed. The contractor is entitled to be compensated for the additional sludge removed at the Supplemental Unit Price provided in the bid document.

The engineer, contractor, and manufacturer agree that once these repairs are completed, the secondary digester is expected to be good for another 20 years.

Bob VanGyseghem  
Superintendent of Water & Wastewater

**RESOLUTION NO. 2023-105**

**RESOLUTION AUTHORIZING EXECUTION OF  
Change Order No. 1 with Boller Construction Co., Inc.  
Repairs to the Secondary Digester**

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**WHEREAS**, the City Council of the City of Geneva, Kane County, Illinois approved Resolution No. 2023-39 authorizing execution of a contract with Boller Construction Co., Inc. for the cleaning and inspection of the wastewater treatment plan digesters in the amount of \$978,200; and

**WHEREAS**, the scope of services to be provided by the contractor needs to be increased, thereby necessitating a change order greater than \$25,000; and

**WHEREAS**, the City Council finds that the circumstances said to necessitate the change in performance were not reasonably foreseeable at the time the contract was signed; and

**WHEREAS**, the City Council finds that the change is germane to the original contract as signed; and

**WHEREAS**, the City Council finds that the change order is in the best interest of the City of Geneva.

**NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS**, as follows:

**SECTION 1:** Recitals. The foregoing recitals are hereby incorporated into this Resolution as findings of the City Council of the of the City of Geneva, Kane County, Illinois.

**SECTION 2:** That the technical memorandum from Baxter & Woodman at Exhibit “A” outlines the reasons to support the Change Order No. 1 request by explaining the necessity of the work involved.

**SECTION 3:** That the City Administrator is hereby authorized to execute on behalf of the City of Geneva, Change Order No. 1 in the amount of \$410,481 with Boller Construction Co., Inc. in the form attached at Exhibit “B” increasing total contract price to \$1,388,618.

**PASSED** by the City Council of the City of Geneva, Kane County, Illinois, this 2<sup>nd</sup> day of \_\_\_\_\_, 2023

**AYES:** \_\_\_\_ **NAYS:** \_\_\_\_ **ABSTAIN:** \_\_\_\_ **ABSENT:** \_\_\_\_ **HOLDING OFFICE:** 10

**APPROVED** by me this 2<sup>nd</sup> day of October, 2023.

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Mayor

ATTEST:

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City Clerk

## TECHNICAL MEMORANDUM

DATE: September 25, 2023  
TO: Bob VanGyseghem, Superintendent of Water & Wastewater, City of Geneva  
FROM: Anne Crotteau, Baxter and Woodman, Inc.  
SUBJECT: Secondary Digester Repairs for the Anaerobic Digester Inspection Project

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This technical memorandum describes the results of the inspections related to the City of Geneva's Secondary Digester at the Wastewater Treatment Plant. The purpose of this memo is to supplement and support the Change Order No. 1 request for the Anaerobic Digester Inspection Project by explaining the necessity of the work involved and the proposed change in Contract Price and Contract Time.

### Project Overview

The Anaerobic Digester Inspection Project was preceded by an inspection of the exterior concrete structure (accessible above the digester covers) and topside of the digester cover equipment. However, the structural integrity of digester covers cannot be estimated without access to the underside of the covers. Additionally, in 2022, the Secondary Digester cover "tilted" and was jammed against the digester walls, preventing the digester from storing biogas and otherwise operating as intended. The cause is still unknown, but the misalignment caused significant damage to the cover, further explained in this memo. The cover was reset as level as possible and monitored for signs of misalignment. The cover was unjammed twice more after the initial tilt before the inspection project began.

The City of Geneva hired Baxter and Woodman, Inc. (B&W) to perform construction services for the Anaerobic Digester Inspection Project to investigate the interior conditions of the Primary and Secondary Digesters, as well as the gas safety equipment and waste gas burner. Boller Construction was low Bidder and subsequently awarded the Contract on May 1<sup>st</sup> in the amount of \$978,200, including a \$50,000 cash allowance for emergency repairs necessary to provide fully operation digesters post-inspection. The dates for substantial completion and final completion were set at September 25<sup>th</sup>, 2023 and October 24<sup>th</sup>, 2023, respectively.

### Results of the Secondary Digester Inspection

At this time, the Secondary Digester has been emptied, cleaned, and inspected. As part of the construction contract, the Secondary Digester inspection included the following disciplines:

- Interior Concrete Structure by a Concrete Structural Expert.

- Interior Concrete Coating by a Coating Expert.
- Digester Cover Equipment Coating by a Coating Expert.
- Gas Safety Equipment by a Varec Biogas Equipment Representative.
- Gasholder Digester Cover by a Walker Process Equipment Representative.

A summary of the details of the results from each of these inspection reports is below. Please refer to the individual inspection reports for additional information.

This memo is related specifically to the repairs recommended by the Inspecting Agencies and the Contractor pertaining to the Secondary Digester. The Primary Digester has not yet been inspected, and the items related to the waste gas burner are not required prior to restoring the Secondary Digester to operation.

### **Results of Concrete Inspection**

Bulley & Andrews Concrete Restoration (BACR) completed the concrete assessment; no deterioration or damages were observed, and no specific repairs were recommended. Thus, any necessary minor repairs are anticipated to be completed as part of the specific cash allowance for the project.

### **Results of Coating Inspection**

Taylor Consultants, Inc. performed inspections of the coatings on the digester concrete and digester cover. The inspected areas include the concrete floor, sidewalls below and above the cover, concrete ballast, and underside of the cover. The topside of the cover is covered with a roofing system and is not exposed.

Overall, the coatings were in good condition and are still protecting the structure's concrete and the digester cover. The inspector identified several areas requiring minor coating repairs and about three areas where the lining and the concrete beneath were damaged, presumably when the digester cover tilted. The repairs pertaining to the concrete ballast and underside of the cover were also recommended in the digester cover inspection report and are included in the estimate for the cover repairs discussed later in this memo. The other damages pertaining to the concrete lining system were minor spot repairs. Therefore, any necessary minor repairs are anticipated to be completed as part of the specific cash allowance for the project.

### **Results of Gas Safety Equipment Inspection**

Drydon Equipment, Inc. inspected the gas safety equipment on behalf of Varec Biogas. Several items were recommended to be replaced, repaired, or upgraded, and some spare parts were also recommended. However, none of the items are critical – they do not need to be replaced prior to putting the Secondary Digester back in operation. Furthermore, City staff have already been ordering and replacing several items

directly; the gas safety equipment can be replaced without the assistance of a Contractor, and replacement of these items by the Contractor are not included in the project's original scope.

Baxter and Woodman has been coordinating with the gas safety equipment representatives to determine the cost estimate for the recommended items. B&W recommends that the City of Geneva order and replace these items independent of this construction project. If future discussions determine that it is in the City's best interest to replace any of these components as part of this project, the necessary equipment replacements are anticipated to be completed as part of the specific cash allowance for the project.

### **Results of Gasholder Digester Cover Inspection**

The Secondary Digester steel gasholder cover was inspected by Eskenazi & Farrell Associates, LLC (EFA) and Leber Construction Consulting, Inc. on behalf of Walker Process Engineering. With the exception of a few items, the interior structural members of the digester cover were in good condition.

#### *Knee Bracing*

Fourteen trusses support the digester cover, and each of these is supported by a knee brace. During the inspection, five of the knee braces were identified as warped or bent. Replacement of these five knee braces is included in Change Order No. 1. This is a necessary structural repair prior to putting this digester back online.

#### *Painting Repairs*

The inside of an anaerobic digester is a very corrosive environment. The coatings on the digester walls and the equipment inside of the digester provide a barrier between these structural components and the corrosive gases. Without this coating, the digester cover would only last a fraction of its useful life.

There were several locations of paint blistering identified on the digester cover rim plate and concrete ballast ring. There is also rusting at the seams between the purlins – structural channels spanning between the trusses – and the cover plate. This Change Order includes thorough cleaning and new protective coating for these areas. This was recommended in both the digester cover and the coatings inspection reports to prevent future corrosion.

#### *Columns/Guides*

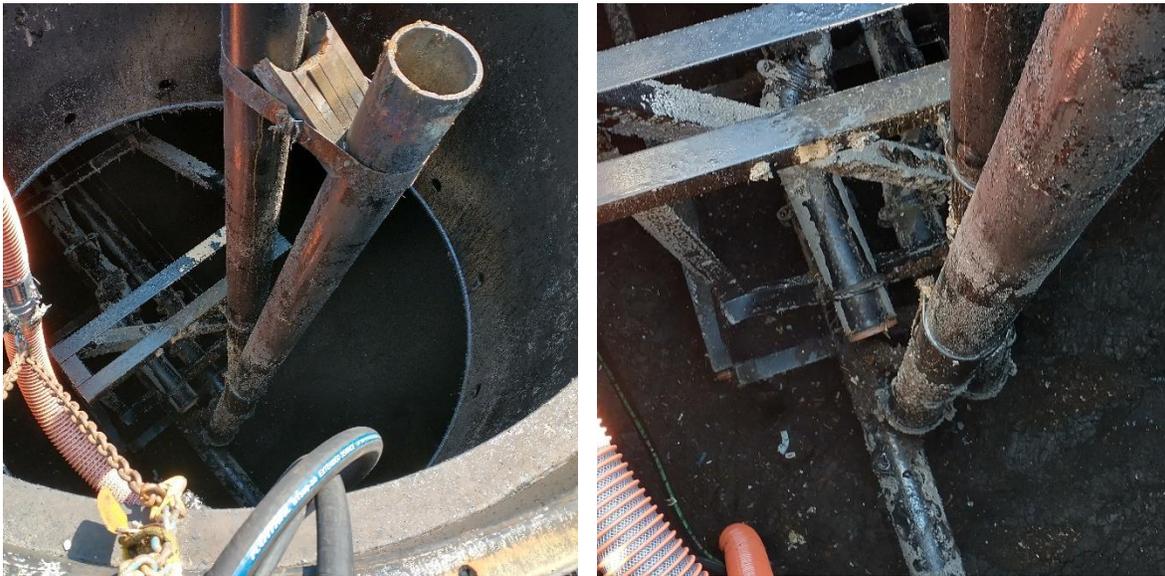
A column at the end of each structural truss connects to the truss, rim plate, and knee brace. These columns rest on the concrete corbel ledge inside the digester at the low liquid and gas storage level. Seven of these columns, also called guides, are also equipped with rollers at the bottom to allow the digester cover to rise and fall with fluctuating levels. A roller at the top of the digester wall also rests inside of the column to keep the digester aligned and prevent it from rotating.

Three of the seven vertical guides are cracked where the guide meets the digester cover plate. These are also bent significantly out of alignment and no longer match with the corresponding roller on top of the digester wall. These columns are vital to keeping the cover level and plumb so that the digester cover can operate as intended. Change Order No. 1 includes straightening and properly aligning the vertical guides as well as welding and reinforcing the cracks. This is a necessary repair prior to putting this digester back online.

### **Additional Recommendations and Necessary Repairs**

#### *Replaced Gas Draw-Off and Sludge Recirculation Piping and Repair Piping Support*

Two pipes in the Secondary Digester are supported vertically in the center for digester gas draw-off and for sludge recirculation. When the Secondary Digester was taken offline and partially emptied, it was discovered that the gas draw-off piping in the center of the digester had been broken and was held in place only by resting on the piping below and attached to the adjacent vertical sludge piping. The steel piping support had also been severely damaged. See Figure 1 below. The broken gas draw-off piping has already been removed from the digester as part of the specific cash allowance for this project; this was necessary before personnel could safely enter the digester for the cleaning and inspection.



*Figure 1: Damaged gas draw-off piping and piping support.*

The piping support as it remains is structurally compromised and will need to be repaired or replaced before the digester is restored to normal operation, which will require removing the vertical sludge recirculation piping as well. Included in Change Order No. 1 are replacement of the removed gas draw-off and sludge recirculation piping and work to repair the piping support.

### *Add Angle Braces to Reinforce Cover Guides*

Baxter and Woodman met with representatives from Boller Construction and the personnel from Eskenazi & Farrell Associates and Walker Process Equipment who were on site for the digester cover inspection to discuss the results. Part of the discussion involved ideas to minimize the chance of the cover tilting and jamming in the future.

Because the digester cover has been jammed a few times, it's likely that the vertical guides have been weakened by the fatigue of being bent and bent back multiple times. Boller Construction recommended installing angle braces above the cover to support the seven vertical guides. Baxter and Woodman recommends installing these braces on all of the vertical guides to distribute the weight equally and since the other columns may also have been fatigued without currently showing physical signs. This will strengthen cover to minimize the chance of future tilting.

### *Add Rollers at the Roof Line*

Another item recommended during the meeting to discuss the digester cover inspection results was the addition of rollers at the top of the cover plate that roll along the digester wall. Adding these rollers gives the cover another point of contact as the cover rises and falls to aid in keeping the cover level and centered. This improvement is included in Change Order No. 1 to minimize the chance of future tilting.

**You are directed to make the following changes in the Contract Documents:**

<b>PROJECT:</b>	Anaerobic Digesters Inspection	<b>DATE OF ISSUANCE:</b>	September 26, 2023
<b>OWNER:</b>	City of Geneva, Illinois	<b>ENGINEER:</b>	Baxter & Woodman, Inc.
<b>CONTRACTOR:</b>	Boller Construction Company, Inc.	<b>ENGINEER's Project No.</b>	211358.00

**Description:**

1. Provide for an adjustment to the Contract Amount for additional costs associated with the removal of additional sludge from the Secondary Digester beyond the quantity specified in Contract Documents.

**Proposed Cost for this Item..... \$136,675.00**

2. Provide for an adjustment to the Contract Amount for additional costs associated with the repairs to the Secondary Digester cover, recirculation piping, painting, and roofing, to restore the Secondary Digester to the condition required to return it to full operation.

**Proposed Cost for this Item..... \$273,743.00**

3. Provide for an adjustment to the Contract Substantial and Final Completion Times due to the delays encountered from the unexpected magnitude of structural and mechanical repairs required to return the Secondary Digester to an operational condition.

**Proposed Cost for this Item..... No Cost**

**Purpose of Change Order:**

1. Provide an increase to the Contract Amount for the removal, screening, dewatering, and stockpile on site and screenings hauling and disposal off site of **177,269 gallons** of liquid biosolids above and beyond the quantity specified in the Contract Documents. Prior to removal of any contents in the Secondary Digester, the City, Contractor, and the Engineer met on site to verify and document the levels of the biosolids in the Digester. The quantity of the contents was calculated at **277,269 gallons** above the Secondary Digester cone. The quantity of biosolids expected per the Contract Documents, **100,000 gallons** above the cone, was deducted from the actual quantity of contents calculated, and the difference is the quantity for which the Contractor shall be compensated. Costs for this additional removal and disposal is calculated through use of Supplemental Unit Prices provided for by the Contractor in their Bid Proposal. This additional cost is above and beyond the cost already included in the Contractor's Bid for this work, and was unforeseeable at the time of Bid.
2. Provide an increase to the Contract Amount for the additional costs associated with the structural, mechanical, paint, and roof repairs required to return the Secondary Digester to full operation. While it was expected that the Secondary Digester would require limited repair work after the inspection performed under this Contract, the Contract Documents did not provide compensation in an amount sufficient to address the magnitude of the structural, mechanical, paint, and roof deficiencies discovered. A cash allowance in the amount of \$50,000 was included in the Contract through the Contractor's Bid to cover all repairs identified upon inspection of both the Primary and Secondary Digesters. Because the condition of the Secondary Digester revealed extensive repairs, and costs associated with these repairs, the included cash allowance is not enough to cover the Secondary Digester repairs alone. Therefore, it was determined that the cash allowance will be retained for potential additional work and repairs on the Primary Digester when inspected. Should the scope of additional work for the Primary Digester not require use of a portion or entirety of the cash allowance, the unused portion will be credited back to the Contract through a future change order prior to completion of the Project.
3. Provide for an adjustment to the Contract Dates for both Substantial Completion and Final Completion due to the delays encountered from the unexpected magnitude of structural and mechanical repairs required to return the Secondary Digester to an operational condition.

**Attachments:**

1. Secondary Digester Sludge Removal Calculations, dated September 25, 2023.
2. Page extracted from the Contractors Bid, Specification Section 00 43 22.16 – Supplemental Unit Prices.
3. Contractor’s Change Order Proposal, noted as “CHANGE PROPOSAL”, issued by Boller Construction Company, Inc., dated September 13, 2023.
4. Contractor’s Hourly Rate Sheet, noted as “HOURLY RATE SHEET”, issued by Boller Construction Company, Inc., dated undated.
5. Subcontractor’s Change Order Proposal, noted as “Change Order Request”, issued by Dahme Construction Industries, Inc., undated, for structural repairs to the Secondary Digester.
6. Subcontractor’s Change Order Proposal, noted as “Change Order Request”, issued by Dahme Construction Industries, Inc., dated September 18, 2023, for mechanical repairs to the Secondary Digester.
7. Subcontractor’s Change Order Proposal, noted as “Floating Digester Cover Repairs...”, issued by Waukegan Roofing Co., Inc., undated, for roofing repairs to the Secondary Digester.
8. Subcontractor’s Hourly Rate Sheet, noted as “T&M Rates for Geneva WWTP”, issued by RP Coatings, dated September 25, 2023, for painting repairs to the Secondary Digester.
9. Contractor’s Revised Schedule, noted as “GENEVA DIGESTERS INSPECTIONS”, issued by Boller Construction Company, Inc., dated undated.
10. Technical Memo, Issued by Baxter & Woodman, Inc., dated September 25, 2023.

**CHANGE IN CONTRACT PRICE:**Original Contract Price: \$978,200.00Previous Change Orders: n/aCurrent Contract Price: \$978,200.00Net Increase of This Change Order: \$410,418.00Contract Price With This Change Order: \$1,388,618.00**CHANGE IN CONTRACT TIME:**Original Contract Time:  
Substantial Completion: September 25, 2023  
Completion: October 24, 2023Change From Previous Change Orders:  
Substantial Completion: n/a  
Completion: n/aCurrent Contract Time:  
Substantial Completion: September 25, 2023  
Completion: October 24, 2023Net Increase of this Change Order:  
Substantial Completion: 207 Days  
Completion: 228 DaysContract Time with This Change Order:  
Substantial Completion: April 18, 2024  
Completion: May 9, 2024***NOTE: USE ANYTIME THE CHANGE ORDER EXCEEDS \$10,000 ± OR 30 DAYS EXTENSION.***

Pursuant to 720 ILCS 5/33E-9, (1) the circumstances said to necessitate the change in performance were not reasonably foreseeable at the time the contract was signed, (2) the change is germane to the original contract as signed, and (3) the change order is in the best interest of the City of Geneva, Illinois.

**PREPARED BY:**

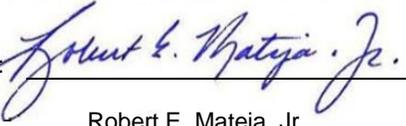
BAXTER & WOODMAN, INC.

**APPROVED:**

CITY OF GENEVA

**ACCEPTED:**

BOLLER CONSTRUCTION  
COMPANY, INC.

By: 

Robert E. Mateja, Jr.  
Construction Project Manager

By: \_\_\_\_\_

Stephanie Dawkins  
City Administrator

By: \_\_\_\_\_

Joshua Boller  
President

**RECOMMENDED BY:**

By: 

Daniel Bounds, P.E.  
Client Manager

00 43 22.13

SUPPLEMENTAL UNIT PRICES

Bidder submits the following Schedule of Supplemental Unit Prices for additions to or deductions from the scheduled amount of Work as given in the Bid Form, and agrees that Owner reserves the unrestricted privilege to accept or reject any or all unit prices:

- 1. Primary Digester digested sludge removal, screening, dewatering, and stockpile on site and screenings hauling and disposal off site; include 100,000 gallons of digested sludge in Base Bid, per thousand gallons \$ 771.00
- 2. Primary Digester digested sludge screening and transfer to Secondary Digester and screenings hauling and disposal off site; include 540,000 gallons in Base Bid, per thousand gallons \$ 162.00
- 3. Secondary Digester digested sludge removal, screening, dewatering, and stockpile on site and screenings hauling and disposal off site; include 100,000 gallons of digested sludge in Base Bid, per thousand gallons \$ 771.00
- 4. Removal, dewatering, hauling, and disposal off site of Primary and Secondary Digester digested sludge with high grit content and other debris; include the contents below elevation 672'-0" (top of the cone elevation) in Base Bid, per thousand gallons \$ 1,925

Bidder agrees the Supplemental Unit Prices shown above include all overhead, profit, and those costs included in the Cost of the Work in accordance with Article 11 of the General Conditions.

PROVIDE SIGNATURE IDENTICAL TO THAT SHOWN ON THE BID FORM

BIDDER:

Boller Construction Company Inc

By: \_\_\_\_\_

END OF SUPPLEMENTAL UNIT PRICES



# CHANGE PROPOSAL

DATE: 9/13/23

TO: Baxter & Woodman, Inc.

RE: Geneva - Anaerobic Digesters Inspection  
Secondary Digester Cover Repairs

**Description of Work: Repairs to Secondary Digester Cover as outlined in scope below:**

**Replace bent knee bracing**

**Caulk seam at purlins**

**Straighten as best possible and repair bent columns**

**Replace portion of interior gas draw and recirc piping and repair support system**

**Add additional rollers in 7 locations**

**Add additional angle braces from roof to upper columns at 7 locations**

**Patch roofing as needed from new braces**

**Paint / coat all new metals, piping and repairs**

**Realign cover and existing rollers**

**Remove bubbled coatings from ballast blocks**

**NOTE: Boller Construction is making repairs based on discussions and directions from Walker Process and Baxter & Woodman. Boller does not make any guarantee or warranty in any way that the Secondary Digester Cover will not have issues in the future. Boller also specifically excludes any changes in balancing or distribution of the existing ballast blocks.**

	Boller / Subcontractor	Description	Amount
	Boller Labor	Supervision / Safety	\$30200
		Millwright	\$18400
	Boller Materials	Misc steel / Rollers	\$24400
	Boller Equipment	Scaffold / Site equipment /safety	\$31800
	TOTAL		\$104800
	Dahme Mechanical	Metal work	\$60508
	Dahme Mechanical	Piping work	\$39702
	Wauk Roofing	Roof repairs	\$11905
	Painter	Painting	\$29960

OH&P	Boller Work	15%	\$15720.00
OH&P	Subcontractor Work	5%	\$7103.00
	Additional Bond Costs		\$4045.00
	<b>TOTAL:</b>		<b>\$273743.00</b>



## Change Proposal

### Follow up to 9/13/23 Digester Cover Repair Change Proposal

#### Boller Breakdown

Description of Item	Costs
<b>LABOR</b>	
Superintendent - 195MH @ \$133.01	\$25955.00
Misc General Conditions	\$4245.00
Millwrights 120MH @ 128.88	\$15465.00
Small tools / Supplies	\$2935.00
<b>MATERIALS</b>	
Misc steel & Fasteners	\$11310.00
Rollers	\$13090.00
<b>EQUIPMENT</b>	
Scaffold Rental and Reposition Costs	\$24400.00
Site unloading and transport equip.	\$6100.00
Safety Equip	\$1300.00
<b>TOTAL</b>	<b>\$104,800.00</b>

**LABOR UNIT PRICES****HOURLY RATE SHEET****CONTRACTOR: BOLLER CONSTRUCTION COMPANY, INC.****LABOR CLASSIFICATION: CARPENTER**As applicable complete the following for  
information only:**ADDRESS: 3045 W. WASHINGTON STREET****LOCAL: LOCAL 250****LOCAL PHONE NO. (847) 662-7421****EFFECTIVE DATE: FROM 6/1/22****TO: 5/31/23****CITY, STATE: WAUKEGAN, IL 60085****TELEPHONE: (847) 662-5566**

	% OR RATE/HR	STRAIGHT TIME	PREMIUM** TIME (1.5)	PREMIUM** TIME (2.0)
BASE RATE:		\$ 56.01	\$ 28.01	\$ 56.01
FRINGE BENEFITS		\$ 40.63	NA	NA
FICA (FOAB) %	7.65%	\$ 4.28	\$ 2.14	\$ 4.28
F.U.I. %	0.60%	\$ 0.34	\$ 0.17	\$ 0.34
S.U.I. %	8.65%	\$ 4.84	\$ 2.42	\$ 4.84
WORKMEN'S COMP. * (a) %	32.41%	\$ 18.15	NA	NA
PUBLIC LIABILITY INSURANCE:* (b) %	15.62%	\$ 8.75	NA	NA
SUBTOTAL		\$ 133.01	\$ 32.74	\$ 65.48
OVERHEAD AND PROFIT %	10%	\$ 13.30	NA	NA
SUBTOTAL		\$ 146.31	\$ 32.74	\$ 65.48
TOTAL LABOR RATE PER HOUR:		\$ 146.31	\$ 179.05	\$ 211.78

**ABOVE TOTAL LABOR RATE SHALL BE USED TO COMPUTE LABOR COST ON ALL CHANGES IN THE WORK.**

\*\* These costs are those that are in addition to the straight time costs for premium work. The items that are indicated as N/A are the costs that are not applicable to premium time work (i.e. Union Fringes, Workmen's Compensation, Liability and Auto Insurance and Overhead and Profit).

1. Verification items a and b: to be submitted by contractor and reviewed by the construction manager.
2. The above Total Labor Rate Per Hour will be updated annually to adjust for changes in the Base Rate, Union Fringe Benefits, F.I.C.A., F.U.I., and S.U.I.

**FORM OF BID**



Boller Construction Company, Inc  
 3045 Washington Street  
 Waukegan, IL 60085

Attn: Steven G. Dalbec, Vice-President and All-Knowing GC

Re: Change Order Request  
 Geneva Digester Inspection and Repairs Project

Steve:

Per your request we offer the following changes in pricing to our scope for the project referenced above:

**Item 1: Straighten and Repair (3) Vertical Guide Beams**

**1. Labor**

16	hours pipefitter foreman rate	\$134.06 /hour	\$2,144.96
32	hours pipefitter journeyman rate	\$126.63 /hour	\$4,052.16
	<b>Subtotal</b>		<b>\$6,197.12</b>
	<b>15% mark-up</b>		<b>\$929.57</b>
	<b>Total Labor</b>		<b>\$7,126.69</b>

**2. Materials**

1	patch plates and consumables	\$125.00 /lot	\$125.00
	<b>Subtotal</b>		<b>\$125.00</b>
	<b>15% mark-up</b>		<b>\$18.75</b>
	<b>Total Materials</b>		<b>\$143.75</b>

**3. Equipment**

16	hours service truck with welder	\$40.00 /hour	\$640.00
	note: all equipment fuel included in rate		
	<b>Subtotal</b>		<b>\$640.00</b>
	<b>Total Equipment</b>		<b>\$640.00</b>

**4. Subcontractors**

0	N/A	\$0.00 /lot	\$0.00
	<b>Subtotal</b>		<b>\$0.00</b>
	<b>5% mark-up</b>		<b>\$0.00</b>
	<b>Total Subcontractors</b>		<b>\$0.00</b>

<b>Total Item 1:</b>	<b>\$7,910.44</b>
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**Item 2: Install Stiffener Angles at ~~(3)~~ Vertical Guide Beams** Seven (7) Confirmed by Dahme

**1. Labor**

16	hours pipefitter foreman rate	\$134.06 /hour	\$2,144.96
32	hours pipefitter journeyman rate	\$126.63 /hour	\$4,052.16
	<b>Subtotal</b>		<b>\$6,197.12</b>
	<b>15% mark-up</b>		<b>\$929.57</b>
	<b>Total Labor</b>		<b>\$7,126.69</b>

**Item 2: Install Stiffener Angles at (3) Vertical Guide Beams (cont.)**

<b>2. Materials</b>			
1	consumables	\$50.00 /lot	\$50.00
		<b>Subtotal</b>	<b>\$50.00</b>
		<b>15% mark-up</b>	<b>\$7.50</b>
		<b>Total Materials</b>	<b>\$57.50</b>
<b>3. Equipment</b>			
16	hours service truck with welder note: all equipment fuel included in rate	\$40.00 /hour	\$640.00
		<b>Subtotal</b>	<b>\$640.00</b>
		<b>Total Equipment</b>	<b>\$640.00</b>
<b>4. Subcontractors</b>			
0	N/A	\$0.00 /lot	\$0.00
		<b>Subtotal</b>	<b>\$0.00</b>
		<b>5% mark-up</b>	<b>\$0.00</b>
		<b>Total Subcontractors</b>	<b>\$0.00</b>

<b>Total Item 2:</b>	<b>\$7,824.19</b>
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**Item 3: Remove and Replace Truss Angles in Attic Five (5) Confirmed by Dahme**

<b>1. Labor</b>			
16	hours pipefitter foreman rate	\$134.06 /hour	\$2,144.96
32	hours pipefitter journeyman rate	\$126.63 /hour	\$4,052.16
		<b>Subtotal</b>	<b>\$6,197.12</b>
		<b>15% mark-up</b>	<b>\$929.57</b>
		<b>Total Labor</b>	<b>\$7,126.69</b>
<b>2. Materials</b>			
1	stainless steel hardware and consumables	\$200.00 /lot	\$200.00
		<b>Subtotal</b>	<b>\$200.00</b>
		<b>15% mark-up</b>	<b>\$30.00</b>
		<b>Total Materials</b>	<b>\$230.00</b>
<b>3. Equipment</b>			
16	hours service truck with welder note: all equipment fuel included in rate	\$40.00 /hour	\$640.00
		<b>Subtotal</b>	<b>\$640.00</b>
		<b>Total Equipment</b>	<b>\$640.00</b>
<b>4. Subcontractors</b>			
0	N/A	\$0.00 /lot	\$0.00
		<b>Subtotal</b>	<b>\$0.00</b>
		<b>5% mark-up</b>	<b>\$0.00</b>
		<b>Total Subcontractors</b>	<b>\$0.00</b>

<b>Total Item 3:</b>	<b>\$7,996.69</b>
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**Item 4: Install (7) Rollers and Side Rail Guides Seven (7) Locations with Two (2) Rollers Each Location Confirmed by Dahme**

<b>1. Labor</b>			
56	hours pipefitter foreman rate	\$134.06 /hour	\$7,507.36
112	hours pipefitter journeyman rate	\$126.63 /hour	\$14,182.56
		<b>Subtotal</b>	<b>\$21,689.92</b>
		<b>15% mark-up</b>	<b>\$3,253.49</b>
		<b>Total Labor</b>	<b>\$24,943.41</b>

**Item 4: Install (7) Rollers and Side Rail Guides (cont.)****2. Materials**

1	stainless steel hardware and consumables	\$500.00 /lot	\$500.00
	<b>Subtotal</b>		<b>\$500.00</b>
	<b>15% mark-up</b>		<b>\$75.00</b>
	<b>Total Materials</b>		<b>\$575.00</b>

**3. Equipment**

56	hours service truck with welder note: all equipment fuel included in rate	\$40.00 /hour	\$2,240.00
	<b>Subtotal</b>		<b>\$2,240.00</b>
	<b>Total Equipment</b>		<b>\$2,240.00</b>

**4. Subcontractors**

1	Nichols Crane	\$6,000.00 /lot	\$6,000.00
	<b>Subtotal</b>		<b>\$6,000.00</b>
	<b>5% mark-up</b>		<b>\$300.00</b>
	<b>Total Subcontractors</b>		<b>\$6,300.00</b>

<b>Total Item 3:</b>	<b>\$34,058.41</b>
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**Item 5: Pipe Adjustments and Inspections on 8-8-23** Includes Removal of Damaged Recirculation Piping, Confirmed by Boller and Dahme**1. Labor**

8	hours pipefitter foreman rate	\$134.06 /hour	\$1,072.48
8	hours pipefitter journeyman rate	\$126.63 /hour	\$1,013.04
	<b>Subtotal</b>		<b>\$2,085.52</b>
	<b>15% mark-up</b>		<b>\$312.83</b>
	<b>Total Labor</b>		<b>\$2,398.35</b>

**2. Materials**

0	stainless steel hardware and consumables	\$500.00 /lot	\$0.00
	<b>Subtotal</b>		<b>\$0.00</b>
	<b>15% mark-up</b>		<b>\$0.00</b>
	<b>Total Materials</b>		<b>\$0.00</b>

**3. Equipment**

8	hours service truck with welder note: all equipment fuel included in rate	\$40.00 /hour	\$320.00
	<b>Subtotal</b>		<b>\$320.00</b>
	<b>Total Equipment</b>		<b>\$320.00</b>

<b>Total Item 5:</b>	<b>\$2,718.35</b>
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<b>Total Cost Add/Deduct:</b>	<b>\$60,508.07</b>
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Please note that our standard contract exclusions apply. Please take care to include your work responsibilities in the proposal before forwarding to the engineer for consideration. Please review and advise of the status of this request; any questions can be addressed to me at (847) 253-0341.

Thank You,

Kris Komorn  
Project Manager  
Dahme Mechanical industries, Inc.  
[kkomorn@dmi-inc.net](mailto:kkomorn@dmi-inc.net)

NOTES INSERTED IN RED ARE BY R. MATEJA, JR. OF B&W 2023-09-26



September 18, 2023

Boller Construction Company, Inc  
 3045 Washington Street  
 Waukegan, IL 60085

Attn: Steven G. Dalbec, Vice-President and All-Knowing GC

Re: Change Order Request  
 Geneva Digester Inspection and Repairs Project

Steve:

Per your request we offer the following changes in pricing to our scope for the project referenced above:

**Item 1: Replace Piping Sections Identified by Anne Crotteau, P.E.**

**1. Labor**

40	hours pipefitter foreman rate	\$134.06 /hour	\$5,362.40
80	hours pipefitter journeyman rate	\$126.63 /hour	\$10,130.40
	<b>Subtotal</b>		<b>\$15,492.80</b>
	<b>15% mark-up</b>		<b>\$2,323.92</b>
	<b>Total Labor</b>		<b>\$17,816.72</b>

**2. Materials**

4	8" FL 45	\$325.00 /ea	\$1,300.00
2	8" FL 90	\$350.00 /ea	\$700.00
4	8" X full length FPE (risers - cut to fit)	\$1,250.00 /ea	\$5,000.00
2	8" X 8' FPE (cut and groove to fit)	\$750.00 /ea	\$1,500.00
4	8" Vic Flange	\$425.00 /ea	\$1,700.00
2	8" Vic Coupling	\$350.00 /ea	\$700.00
2	8" adjustment for unseen conditions	\$500.00 /ea	\$1,000.00
12	8" stainless steel flange accs.	\$125.00 /ea	\$1,500.00
1	stainless hardware, u-bolts, attachments	\$1,500.00 /lot	\$1,500.00
	<b>Subtotal</b>		<b>\$14,900.00</b>
	<b>15% mark-up</b>		<b>\$2,235.00</b>
	<b>Total Materials</b>		<b>\$17,135.00</b>

**3. Equipment**

40	hours service truck with welder note: all equipment fuel included in rate	\$40.00 /hour	\$1,600.00
	<b>Subtotal</b>		<b>\$1,600.00</b>
	<b>Total Equipment</b>		<b>\$1,600.00</b>

**4. Subcontractors**

1	Nichols Crane	\$3,000.00 /lot	\$3,000.00
	<b>Subtotal</b>		<b>\$3,000.00</b>
	<b>5% mark-up</b>		<b>\$150.00</b>
	<b>Total Subcontractors</b>		<b>\$3,150.00</b>

<b>Total Item 1:</b>	<b>\$39,701.72</b>
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<b>Total Cost Add/Deduct:</b>	<b>\$39,701.72</b>
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Please note that our standard contract exclusions apply. Please take care to include your work responsibilities in the proposal before forwarding to the engineer for consideration. Please review and advise of the status of this request; any questions can be addressed to me at (847) 253-0341.

Thank You,

Kris Komorn  
Project Manager  
Dahme Mechanical industries, Inc.  
[kkomorn@dmi-inc.net](mailto:kkomorn@dmi-inc.net)

# WAUKEGAN ROOFING CO., INC.

70

Quoted To: Boller Construction  
Attention: Jeffery Johnson  
Telephone: 815-793-4699  
Email: [jjohnson@bollerconstruction.com](mailto:jjohnson@bollerconstruction.com)  
CC: Randy Alcorn  
Email: [randya@bollerconstruction.com](mailto:randya@bollerconstruction.com)

Project Name: Floating Digester Cover Roofing Repairs @ Geneva Wastewater Treatment Plant 602 Crissey Ave.,  
Geneva, IL 60134

*Thank you for contacting Waukegan Roofing Co., Inc. to request the following proposal from our firm. After your review, please call me to discuss any questions or concerns you may have.*

**Our Proposal is based on the information shown below and on the following pages all inclusive:**

- **This Proposal if accepted is to be signed and attached as a rider to your firm's Contract Documentation**
- The Prices shown are good for 30 days from the date shown at the top of the page
  - After that date we retain the right to adjust our prices based on market conditions at the time
- If additional work is requested or required beyond the Scope of Work described herein said work shall be charged as an extra to the Base Proposal Price shown below.

**Scope of Work for the repairs:**

- Waukegan Roofing Co., Inc. will provide Roofers' Local 11 Union labor, materials, equipment and the required insurance to complete the following repairs described below:
  - In three (3) separate areas about 18" square at the outside edge of the cover filled in around either a steel I-Beam or angle iron support
  - In seven (7) separate areas about 18" square at the outside edge of the cover
  - We will:
    - Apply a roller coat of solvent based metal primer on the new steel cover patches to be supplied and installed by others at no cost to our firm
    - Apply a self-adhered vapor barrier membrane over the primed metal cover plate patches
    - Spud back the existing gravel where required and broadcast it onto the surrounding roof area(s)
    - Apply a roller coat of asphalt primer to the adjacent roof surface
    - Install approximately 3" of new rigid roof insulation over the new metal cover plates glued in place using low rise foam adhesive
    - Install one ply of new modified base sheet heat welded in place
    - Install one ply of new white granulated modified bitumen cap sheet heat welded in place
    - Install a uniform coat of asphalt emulsion over the patched and repaired areas and broadcast new roofing gravel into the emulsion and broom uniform
    - Install a three-course membrane and mastic flashing system around all outside edges of the patches for additional weatherproof protection
    - Install a liquid flashing system around the irregular shapes (steel I-Beams and angle iron supports) to seal the roof penetrations weathertight.
  - Waukegan Roofing Co., Inc. 2-year Workmanship Warranty is included

**BASE PROPOSAL PRICE FOR THE WORK DESCRIBED ABOVE IS: \$ 11,905.00**



956 Campus Drive • Mundelein, Illinois 60060  
Phone: 847-623-1625 • Fax: 847-623-4847  
[www.waukeganroofing.com](http://www.waukeganroofing.com) • IL License #104-000761





September 22, 2023

To: Boller Construction

Re: T&M Rates for Geneva WWTP

These rates are good through May 31, 2024. These rates will be effective until new rates are mutually agreed upon when our new working agreement is released.

Our rates are as follows:

Baserate - Journeyman	\$135.00/hr
Baserate - Foreman	\$140.00/hr
Time & 1/2	Baserate + \$40
Material, Small Tools & Equipment Markup	Invoice + 10%
Travel Time To/From Jobsite	\$30.00/hr
Per Diem	\$150/night

Thank you,

Emily Levy

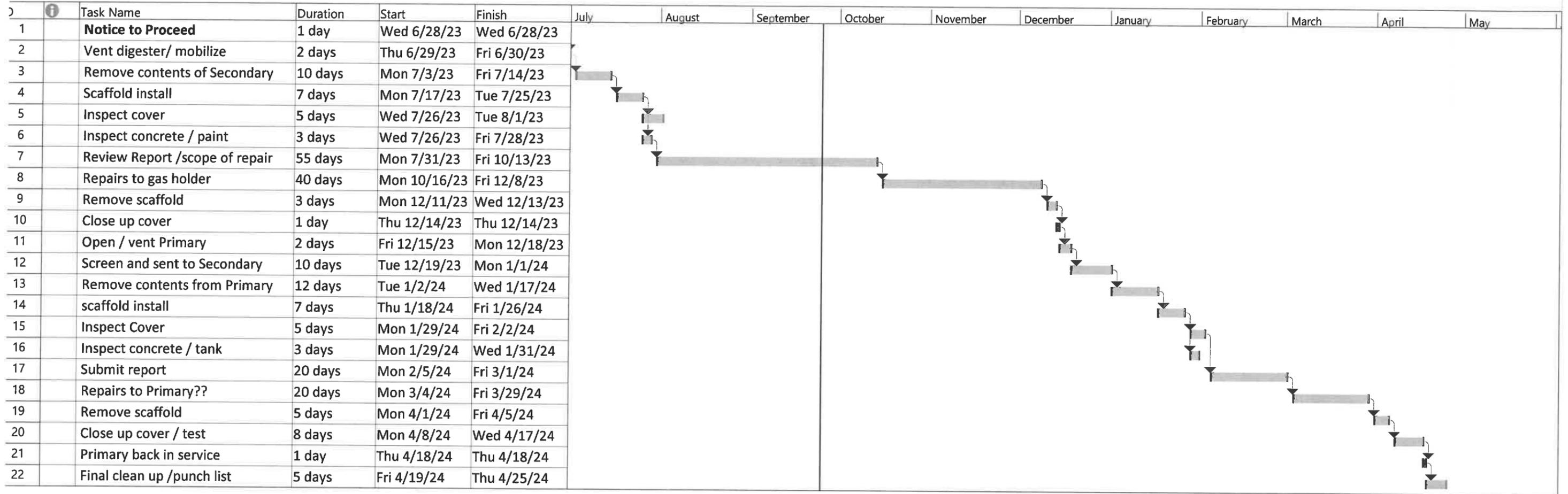
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**PO Box 327 Troy, IL 62294 ~ P: 618-667-3150 F: 618-667-3183**

**Office Address: 330 Bargraves Blvd. Troy, IL 62294**

**Warehouse Address: 150 E. Miller Court Carbondale, IL 62901**

GENEVA DIGESTERS INSPECTIONS



Project: Project1.mpp  
Date: Mon 9/25/23

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			