



## Legislation Details (With Text)

**File #:** 2020-346      **Version:** 1      **Name:**  
**Type:** Resolution      **Status:** Passed  
**File created:** 10/7/2020      **In control:** Board of Directors  
**On agenda:** 10/28/2020      **Final action:** 10/28/2020  
**Title:** Proposed Change Order 3  
GLWA-CON-250  
Pumping Station No.1 Rack & Grit and MPI 1 & Jefferson Sampling Stations Improvements  
CIP #211004  
**Sponsors:** Navid Mehran  
**Indexes:** Wastewater Operations  
**Code sections:**  
**Attachments:**

| Date       | Ver. | Action By                          | Action                   | Result |
|------------|------|------------------------------------|--------------------------|--------|
| 10/28/2020 | 1    | Board of Directors                 | Approved                 | Pass   |
| 10/15/2020 | 1    | Operations and Resources Committee | Recommended for Approval | Pass   |

### Proposed Change Order 3 GLWA-CON-250

### Pumping Station No.1 Rack & Grit and MPI 1 & Jefferson Sampling Stations Improvements CIP #211004

Agenda of: October 28, 2020

Item No.: **2020-346**

|         |                              |                |
|---------|------------------------------|----------------|
| Amount: | Original Contract:           | \$6,193,801.41 |
|         | Change Order No.1:           | 0.00           |
|         | Change Order No. 2:          | 0.00           |
|         | Proposed Change Order No. 3: | 0.00           |
|         | Total Revised Contract:      | \$6,193,801.41 |

**TO:** The Honorable  
Board of Directors  
Great Lakes Water Authority

**FROM:** Sue F. McCormick  
Chief Executive Officer  
Great Lakes Water Authority

**DATE:** October 28, 2020

**RE:** **Proposed Change Order No. 3**

**Contract No: GLWA-CON-250**  
**Pumping Station No.1 Rack & Grit and MPI 1 & Jefferson Sampling Stations Improvements**  
**Vendor: Weiss Construction Company, LLC**  
**Designer: Alfred Benesch & Company**

### **MOTION**

Upon recommendation of Navid Mehram, Chief Operating Officer - Wastewater Operating Services, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), authorizes the Chief Executive Officer (CEO) to **enter into Contract GLWA-CON-250 Proposed Change Order No. 3, "Pumping Station No.1 Rack & Grit and MPI 1 & Jefferson Sampling Stations Improvements", with Weiss Construction Company, LLC for an increased duration of 182 days to the final completion date, for a total contract duration of 1186 days**, and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

### **BACKGROUND**

On November 13, 2013, the Detroit Water and Sewerage Department (DWSD) entered into Contract No. PC-789 (Pumping Station No.1 Rack and Grit and Main Plant Influent (MPI) 1 and Jefferson Sampling Stations Improvements) with Weiss Construction Company, LLC in the amount of \$20,335,000.00. It was an open competitive lowest bid contract.

Major elements of work of PC-789 Contract includes (but not limited to) the following:

#### **PS -1 Rack & Grit (R&G) Building and New Building Additions:**

- Replacement of the existing eight bar racks, sixteen grit collection units, screenings and grit belt conveyors.
- Replacement of existing grit cross conveyors #1 and #2, grit flight conveyors #1 and #2 and screenings cross conveyor #2.
- Construction of new south off-load and north conveyor buildings including electrical, lighting, HVAC and plumbing work.

#### **MPI 1 Sampling Station:**

- Replacement of two existing sample pumps and all related plumbing, electrical, I&C and HVAC work to ensure a functional sampling system.

#### **Jefferson Sampling Station:**

- Replacement of two existing sample pumps and all related plumbing, electrical, I&C and HVAC work to ensure a functional sampling system.

On May 27, 2015, the Board of Water Commissioners approved Change Order No. 1, increasing the PC-789 contract amount by \$580,000.00 to bring the total contract amount to \$20,915,000.00.

On June 12, 2015, the City of Detroit and the GLWA entered into certain lease agreements which, in relevant part, assigned certain contracts to the GLWA including this contract effective January 1, 2016.

On August 21, 2017, GLWA approved a second change order to the contract increasing the time duration by 183 calendar days, with no additional funds, to allow time for a third-party investigation. Because of the challenges with quantifying grit removal and the complex hydraulics of the grit channels, the third-party expert's results were inconclusive regarding pre and post construction grit collection efficacy. However, the expert opinions were invaluable in increasing GLWA's ability to understand the complex properties of the grit removal system and identify and implement low cost, minor modifications to the bucket design which has shown to have significantly improved grit removal efficacy.

On January 30, 2018, the DWSD PC-789 Contract was transitioned to a GLWA CON-250 Contract. The required substantial and final completion dates of the CON-250 Contract were March 22, 2019 and September 22, 2019, respectively.

Many separate substantial completions were declared for major equipment/systems for the beneficial use by GLWA. Eventually, the project substantial completion was achieved on June 10, 2019.

During construction, changes were made to the proposed conveyor system installation. Screening conveyors 1 & 2 were eliminated. As a result of the elimination, changes were required to be made to the fire protection system. Additional documentation was then required and was sent to the City of Detroit Fire Department for their review and approval. The fire protection system modifications required a time extension to the Contract.

On August 28, 2019, GLWA Board of Directors approved CON-250 Change Order No. 1 extending the CON-250 final completion date from September 22, 2019 to March 20, 2020 for addressing the fire protection system modification.

On April 22, 2020, GLWA Board of Directors approved CON-250 Change Order No. 2 extending the CON-250 final completion date from March 20, 2020 to October 30, 2020 for performing the construction work of the modified fire protection system.

### **JUSTIFICATION**

The COVID-19 pandemic resulted in the delay of the fire alarm modification work in the Rack and Grit building as scheduled. The contractor, via its July 22, 2020, 8-5-2020 and 8-26-2020 emails, informed GLWA that additional time would be required to complete the remaining work items of the project. The remaining work items are to review of the revised drawings by the Fire Marshall, modification of the deluge system, delivery of parts of the fire alarm system followed by installation, and commissioning, and closeout documentation/activities. The fire alarm system required new parts that are manufactured in Mexico where the factory has experienced shutdowns due to the pandemic. GLWA is requesting to extend the Contract by 182 calendar days which extends the Final Completion

Date to April 30, 2021. This proposed Change Order No. 3 is a time extension Change Order with no additional funds being requested.

### **PROJECT MANAGEMENT STATUS**

|   |            |
|---|------------|
| Original Contract Time:                       | 600 days   |
| Original Substantial Completion Time:         | 416 days   |
| Change Order No. 1 Final Completion:          | 180 days   |
| Change Order No. 2 Final Completion:          | 224 days   |
| Proposed Change Order No. 3 Final Completion: | 182 days   |
| New Contract Time:                            | 1,186 days |

### **PROJECT ESTIMATE**

|                              |                |
|------------------------------|----------------|
| Original Contract Price:     | \$6,193,801.41 |
| Change Order No. 1:          | 0.00           |
| Change Order No. 2:          | 0.00           |
| Proposed Change Order No. 3: | <u>0.00</u>    |
| New Contract Total:          | \$6,193,801.41 |

### **FINANCIAL PLAN IMPACT**

Capital Improvement Plan: The CIP budget for CIP #211004 is \$6,193,801.41. GLWA-CON-250 original contract value is \$6,193,801.41. This is a no-cost, time extension change order, therefore, this proposed Change Order has no financial impact to the capital improvement plan.

### **COMMITTEE REVIEW**

This item was presented to the Operations and Resources Committee at its meeting on October 15, 2020. The Operations and Resources Committee unanimously recommended that the GLWA Board adopt the resolution as presented.

### **SHARED SERVICES IMPACT**

This item does not impact the shared services agreement between GLWA and DWSD.