



December 2, 2021

Mr. Alex Damien, P.E.
Interim Director of Public Works

City of Waukesha
130 Delafield Street
Waukesha, WI 53188-3616

Re: Change Order No. 1
Return Flow Pump Station and Advanced Phosphorus Treatment with Facilities Enhancement for
Clean Water Plant.
City of Waukesha, Wisconsin

Dear Mr. Damien:

Enclosed are three copies of Change Order No. 1 and documentation for the change order items for your review and approval. If these items are acceptable, please sign and return all copies to Jacobs. This letter also summarizes the included Change Order. There are three Clean Water Fund Loans related to the project:

Total Contract Amount: \$17,129,076

Clean Water Fund Loan: CWFL #4062-05 & 4062-11 – Return Flow Pump Station – Contract Value:
\$8,218,710.92.

Total Contingency: \$410,935.00.

- Built-in 5% of loan application of \$293,935
- Built-in to contract amount of \$117,000.

Clean Water Fund Loan: CWFL #4062-07 – Advanced Phosphorus Treatment and Facilities
Enhancements – Contract Value: \$8,910,365.07.

Total Contingency: \$445,520.

- Built-in 5% of loan application of \$382,520
- Built-in to contract amount of \$63,000.



Below itemizes the change order for the Return Flow Pump Station and Advanced Phosphorus Treatment and Facilities Enhancement loan applications.

1.1 Return Flow Pump Station – CWFL #4062-05 & #4062-11

Item 1.1A:

This item includes the cost to provide a 25kV VFI SF6 insulated outdoor switchgear unit. The VFI SF6 insulation matches the other units onsite and provides a more robust unit. Add: \$10,738.

There is no increase beyond what would have been included in the bid had the electrical work been shown on the bidding documents.

Item 1.1B:

This item is a credit for deletion of two 45 degree 30-inch ductile iron (DI) elbows on the discharge line of the return flow pumps. The contractor made alignment adjustments and the elbows were no longer required. Deduct: 8,547

Item 1.1C:

This item is a credit for elimination of UL listed tiebreaker for building 325 MCC. The UL listed tiebreaker is not required and consistent with other existing MCCs onsite. Deduct: \$5,250.

There is no increase beyond what would have been included in the bid had the electrical work been shown on the bidding documents.

Item 1.1D

This item includes the cost for an additional concrete pilaster support for the bridge crane. The bridge crane required the additional support. Add: \$1,558.

There is no increase beyond what would have been included in the bid had the structural work been shown on the bidding documents.

Item 1.1E:

This item includes the cost for two additional generator supports. The additional supports were required due to the generator manufacturer delivered the generator with two additional support locations. Add: 3,236.



There is no increase beyond what would have been included in the bid had the generator supports work been shown on the bidding documents.

Item 1.1F:

This item included the cost for providing insulation on the footing of the retaining wall east of the new building. The insulation was required to protect the footing from frost due to the minimal cover based on the new grading in the area. Add: \$407.

There is no increase beyond what would have been included in the bid had the insulation work been shown on the bidding documents

CWFL #4062-05 & #4062-11 Total Return Flow Pump Station – Change Order Items:

\$2,143.09

This component is a zero-cost change order to the CWFL #4062-05 & #4062-11.

This change order does reduce the amount of the built-in contingency by \$2,143.09.

Built in Contingency balance \$117,000 - \$2,143.09 = \$114,856.91 remaining with a zero-cost increase to the contract.

2.1 Advanced Phosphorus Treatment and Facilities Enhancement – CWFL #4062-07

Item 2.1A:

This item is a credit for deletion of the oxygen transfer efficiency test for the aeration tank diffusers. The test is not required due to extensive historical data by the manufacturer. Deduct: \$3,255.

Item 2.1B:

This item includes the cost to provide two additional starters for air scour blowers. Add: \$1,748.

There is no increase beyond what would have been included in the bid had the electrical work been shown on the bidding documents.

Item 2.1C:

This item is a credit for deletion of a polymer pump starter and associated AFD. The starter and AFD were not required. Deduct: \$2,022.



Item 2.1D:

This item is a credit for allowing the contractor to cut off aeration tank dowels in lieu of coring each dowel as specified. Cutting the dowels is an acceptable method. Deduct: \$9,435.

Item 2.1E:

This item includes the cost for rerouting power to the polymer system from 500LP-1 to 250-LP-1. The distance and corresponding voltage drop from 500LP-1 was too great and running the power from 250-LP-1 was closer. Add: \$1,514.

There is no increase beyond what would have been included in the bid had the electrical work been shown on the bidding documents.

Item 2.1F:

This item includes the cost for demolition of existing control wire in building 110 and building 140 MCCs. The demolition of existing wire was necessary to allow maintenance of new drive wiring. Add: \$4,004.

There is no increase beyond what would have been included in the bid had the electrical work been shown on the bidding documents.

Item 2.1G:

This item includes the cost for installing individual breakers and relays for five pumps in building 110 and four pumps in building 140. The individual breakers/relays will provide protection of pump operation when maintenance is required on one of the pump controls. Add: \$3,463.

There is no increase beyond what would have been included in the bid had the electrical work been shown on the bidding documents.

Item 2.1H:

This item includes the cost for providing a 15 hp starter for the backup air compressor in building 150. The plans had called out a 5 hp starter. If the correct starter was identified in the documents, the corresponding cost would have been included in the bid. Add: \$4,348.

There is no increase beyond what would have been included in the bid had the electrical work been shown on the bidding documents.

CWFL #4062-07 Total Advanced Phosphorus Treatment and Facilities Enhancement Change Order Items: \$364.51



Built in Contingency balance \$63,000 - \$364.51 = \$62,635.49 remaining with a zero-cost increase to the contract.

3.1 Aeration Basin Airline Replacement

This item includes the cost of replacing airline replacement not included in the original scope of the project. The airline failed and had an emergency repair performed. This is the long-term solution to maintain critical process air flow. DNR has approved the inclusion and financing of this critical piece of infrastructure in this project. Add: \$295,037.20

The cost is no more than if it had been included in the original contract scope.

Item 3.1A:

This component (3.1A) is a change order to the \$8,910,365.07 total under CWFL #4062-07.

This change order increases the amount of the overall CD Smith contract total of \$17,129,076 by \$295,037.20 with a revised contract price of \$17,424,113.20.

The loan total financed under CWFL #4062-07 will also be increased by the same \$295,037.20.

Overall loan #4062-07 contingency of \$445,520 is reduced by \$295,037.20.

Available contingency for loan #4062-07 is \$382,520 - \$295,037.20 = \$87,482.80 remaining.

4.1 Contractual Schedule

Item 4.1A:

Milestone No. 1 is for completion of the advanced phosphorus treatment portion of the project. The original substantial completion date is December 12, 2021. This item will add 50 days to the completion of this work but will not negatively impact the WPDES requirement to meet lower phosphorus limit of June 30, 2022. The new substantial completion date for Milestone No. 1 is January 31, 2022.

Item 4.1B:

Milestone No. 2 is for the completion of the return flow pump station related work and other facility enhancements. The original substantial completion date is April 1, 2022. This item will add 50 days to the completion of this work. The additional time will be utilized to properly install replacement of aeration basin airline (new scope of work to the project). The new substantial completion date for Milestone No. 2 is May 21, 2022.

Item 4.1C:



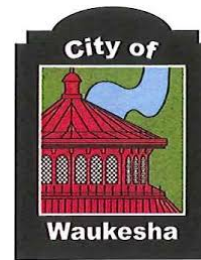
Final Completion is completion of the entire project including project close out and any punch list items. The original final completion date is June 12, 2022. This item will add 50 days to the final completion similar to milestones No. 1 and No. 2. The new Final Completion date is August 1, 2022.

Please call Andrew Schrank (920-912-7530) with any questions.

Sincerely,
Jacobs Engineering Group

Andrew Schrank, P.E.

Enclosure: Change Order No. 1



CONTRACT CHANGE ORDER (CCO)

CHANGE ORDER WRITTEN AMENDMENT CHANGE NO: 001

TO CONTRACTOR: _____

PROJECT: RETURN FLOW PUMP STATION AND ADVANCED
PHOSPHORUS TREATMENT WITH FACILITIES
ENHANCEMENTS FOR CLEAN WATER PLANT PROJECT D3165200

OWNER: CITY OF WAUKESHA, WISCONSIN

ENGINEER: JACOBS ENGINEERING GROUP

The following modification(s) to the Contract are hereby ordered (use additional pages if required):

See attached summary

Reason for Modification(s): _____

See attached summary

Attachments (List Supporting Documents): _____

Contract Amount or Price			
Original Total Contract Value	\$17,129,076.00		
Previous Contract Modification(s) (Add/Deduct)	\$0.00		
This Contract Modification (Add/Deduct)	\$295,037.20		
Revised Contract Amount	\$17,424,113.20		
Phosphorus Total Contract Value	\$8,910,365.07	RFPS Total Contract Value	\$8,218,710.93
Previous Phosphorus Contract Modification(s) (Add/Deduct)	\$0.00	Previous RFPS Contract Modification(s) (Add/Deduct)	\$0.00
This Phosphorus Contract Modification (Add/Deduct)	\$295,037.20	This RFPS Contract Modification (Add/Deduct)	\$0.00
2Revised Phosphorus Contract Amount	\$9,205,402.27	Revised RFPS Contract Amount	\$8,218,710.93

CONTRACT CHANGE ORDER (CCO) - Milestone Changes

CHANGE ORDER

WRITTEN AMENDMENT
CHANGE NO: 001

Substantial Completion

Milestone 1-Advanced Phosphorus Treatment		Contract Times (Calendar Days)	
Original Duration		550	Days
Previous Contract Modification(s)	(Add/Deduct)	50	Days
This Contract Modification	(Add/Deduct)	0	Days
Revised Contract Time		600	Days
The Original Contract Milestone Date is December 12, 2021 (based on NTP of June 12, 2020)			
The Revised Contract Milestone Date is January 31, 2022			

Substantial Completion

Milestone 2 - RFPS Completion		Contract Times (Calendar Days)	
Original Duration		660	Days
Previous Contract Modification(s)	(Add/Deduct)	0	Days
This Contract Modification	(Add/Deduct)	50	Days
Revised Contract Time		710	Days
The Original Contract Milestone Date is April 1, 2022 (based on NTP of June 12, 2020)			
The Revised Contract Milestone Date is May 21, 2022			

Final Completion

		Contract Times (Calendar Days)	
Original Duration		720	Days
Previous Contract Modification(s)	(Add/Deduct)	0	Days
This Contract Modification	(Add/Deduct)	50	Days
Revised Contract Time		770	Days

The Original Contract Milestone Date is June 12, 2022 (based on NTP of June 12, 2020)

The Revised Contract Milestone Date is August 1, 2022

Owner		Contractor		Engineer Recommendation ¹	
By:		By:		By:	Andrew Schrank
Date:		Date:		Date:	December 2, 2021

¹ Recommendation necessary for Change Orders.
ES-P3-03 (REV 04.08.2008)