	AGEND	A IT	EM EXECUTIVE SUMMARY	Agen	da Item number: 6.d	
Title: Recommendation to Approve Phosphorus Removal and Digester Improvements Project Change Order No. 1 to for Internal Digester Coating						
SINCE 1834	Presenter:	Tim	Wilson			
Meeting: Governm	ent Services	Com	mittee Date: February 2	26, 201	8	
Proposed Cost: \$28,308.41			Budgeted Amount: \$370,538.47 (Loan Contingency)		Not Budgeted:	

Executive Summary (if not budgeted please explain):

In 2014, the north digester at the main waste water treatment plant was drained in preparation for emergency steel repairs. Because the digester needed to be drained to make the emergency repairs, staff took the opportunity to perform an ocular inspection of the internal coating of the digester in the lower portion of the digester where the liquids are normally present. The results of the inspection were favorable and identified that only the top ten percent of the coating, in an area where the gases are normally located was visually in need of recoating. Consequently when the design process started for the Phosphorus and Digester plan it was anticipated that it would only be necessary to recoat the upper 10% of the digester which typically contains the corrosive gases. Therefore approximately \$20,000 was included in the project budget to install internal coatings of the digesters.

In 2014 it cost the city \$119,000 to drain, clean, and dispose the solids to make the emergency repair and conduct the coating inspection for just for one digester. Therefore the decision was made to forego the process of draining each digester and inspecting the internal coating and steel before designing the current improvements and rely on the data gained from the 2014 inspection. This was done to save an estimated \$240,000 in costs associated with cleaning, dewatering, and sludge disposal.

As part of the construction contract the general contractor (IHC) has drained, cleaned and completed a structural review of the digester tank, its internal coating and other apparatus with a third party engineer. IHC began the project working in the south digester, that digester has never been drained and inspected. The steel in the south digester was found to be in good condition with no repairs needed. The internal coating of this tank, however, was found to be in very poor condition and in need of complete replacement. City staff, IHC and our consulting engineer reviewed the internal conditions as well as the information from the third party review and determined a complete internal coating replacement was warranted.

The City requested the contractor obtained three quotes for the work and they have provided the City with those estimates. City staff is making the recommendation to approve the change order for the internal painting of the digester.

Attachments (please list):

* Change Order #1 * Summary of Change Order #1 * Summary of Allowances * Summary of Loan Contingency Remaining

Recommendation/Suggested Action (briefly explain):

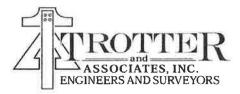
Recommendation to Award Change Order No. 1 to IHC in the amount of \$28,308.41.

CHANGE ORDER NO. 1

Date:	February 20, 2018	Date of A	Agreement:	September 25, 2017
Project:	City of St. Charles 2017 Phosphorus Removal and I	Digester Improven	nents	
Job Number:	STC-100			
Owner:	City of St. Charles 2 East Main Street St. Charles, Illinois 60174	1500	Constructio Executive 1 1, Illinois 60	
-	g changes are hereby made to the Modification Requests (CMR's)		CUMENTS	S: Work associated
Justification:	See attached CMR's.			
Current Con Change in C	ntract Price Previous Change Order(s) tract Price adjusted by Previous C ontract Price Due to this Change ce Including this Change Order	• • • • •		\$13,294,896.00 \$0.00 \$13,294,896.00 \$28,308.41 \$13,323,204.41
Current Con Change to C Contract Tin	ntract Time anges to Contract Time tract Time adjusted by Previous C ontract Time Due to this Change ne Including this Change Order	-	530 0 530 0 530	Calendar Days Calendar Days Calendar Days Calendar Days Calendar Days
Approvals:				
Requested by:	and the second se	ecommended by:		
	Jerry Ruth, P.E. Project Engineer Trotter and Associates, Inc.		Tim Wilso Environme Manage City of St.	ental Services r
Ordered by:		Accepted by:		
	Hon. Raymond Rogina Mayor City of St. Charles		Brian Raus Project Ma IHC Const LLC	
2/20/2018	Change (Order No. 1	Trotter	and Associates, Inc.

Change Order No. 1

Trotter and Associates, Inc. STC-100



City of St. Charles - 2017 Phosphorus Removal and Digester Improvements Summary of Change Order #1

CMR	Description		•	Deere	
No.	Description		Amount	Days	
1	Remove the supply of the Engineer's Trailer, furniture, power/comm., etc.	\$	(9,693.00)	0	
2	Furnish an enlosure for the FeCl3 feed system with more work space	\$	3,075.45	0	
3	Fermenter relocation (\$1,959.69 from Conflicts Allowance)	\$	-	0	
4	Add control contacts and wiring between SS tank mixer CP and PLC	\$	996.19	0	
5	Add emergency stops for the boilers (\$4,618.69 from Conflicts Allowance)	\$		0	
6	Additional Coating within S. ESAD (\$75,000.00 from ESAD Repair Allowance)	\$	38,840.50	0	
7	Adjust base elevation for process control building	\$	(4,910.73)	0	
_	TOTAL FOR CHANGE ORDER #1	\$	28,308.41	0	

Original Contract Price	\$ 13,294,896.00
Previous Change Orders	\$0.00
Current Contract Price adjust by Previous Change Orders	\$ 13,294,896.00
Contract Price due to this Change Order will be adjusted by	\$ 28,308.41
Contract Price including this Change Order	\$ 13,323,204.41

	Substantial	Final
	Completion	Completion
Original Completion Dates	February 6, 2019	March 8, 2019
Previous Contract Time Adjustment	0	0
Current Completion Dates adjusted by Previous Change Orders	February 6, 2019	March 8, 2019
Contract Time due to this Change Order to be Adjusted by	0	0
Completion Dates including this Change Order	February 6, 2019	March 8, 2019

City of St. Charles - 2017 Phosphorus Removal and Digester Improvements Summary of Allowances

CMR No.	Description		Conflict Ilowance	ESAD Repair Allowance	
1	Remove the supply of the Engineer's Trailer, furniture, power/comm., etc.	0			
2	Furnish an enlosure for the FeCl3 feed system with more work space			-	
3	Fermenter relocation (\$1,959.69 from Conflicts Allowance)	\$	1,959.69		
	Add control contacts and wiring between SS tank mixer CP and PLC	11			
5	Add emergency stops for the boilers (\$4,618.69 from Conflicts Allowance)	\$	4,618.69		
6	Additional Coating within the ESAD			\$	75,000.00
7	Adjust base elevation for process control building				
	TOTAL ALLOWANCE AMOUNT UTILIZED		6,578.38		75,000.00

	Conflict Allowance	ESAD Repair Allowance	Total
Original Allowance Value	\$ 40,000.00	\$ 150,000.00	\$ 190,000.00
Allowance Utilized by Change Orders	\$ 6,578.38	\$ 75,000.00	\$ 81,578.38
Allowance Amount Remaining	\$ 33,421.62	\$ 75,000.00	\$ 108,421.62



City of St. Charles - 2017 Phosphorus Removal and Digester Improvements Summary of Loan Contingency Remaining

Description		Total	Loan Eligible
Design Engineering		\$ 921,500.00	\$ 921,500.00
Construction Engineering		\$ 816,000.00	\$ 816,000.00
Construction - IHC Construction Company, L.L.C		\$ 13,294,896.00	\$ 13,294,896.00
Contingency		\$ 398,846.88	\$ 398,846.88
	GRAND TOTAL	\$ 15,431,242.88	\$ 15,431,242.88

Will we exceed the contingency with the next change order?	 NO
Contract Price due to this Change Order will be adjusted by Contingency Remaining under Loan Limit	\$ 28,308.41 370,538.47
Current Contract Price adjust by Previous Change Orders	\$ 13,294,896.00
Executed Change Orders	\$ -
Original Contract Price	\$ 13,294,896.00