

August 8, 2022

Kamran Mokhtari, PE, Project Manager  
Oklahoma City Water Utilities Trust  
420 W. Main, Suite 500  
Oklahoma City, OK 73102

Subject: WT-0249-1 Emergency Draper Filter Improvements – Draper Water Treatment Plant  
Amendment No. 1

Dear Mr. Mokhtari:

Project WT-0249-1 Emergency Draper Filter Improvements includes work in Filter No. 18 of the Draper Water Treatment Plant. The project includes demolition of a 3-inch thick grout layer on the floor of the filter cells, installation of a new filter underdrain system and grout, and installation of new sand and anthracite media. The project also included bid items which could be used to repair any cracks found in the filter basin walls, floor slab, and/or joints.

While construction was ongoing in Filter 18, numerous cracks were discovered in the floor slab and floor/wall joints that could not be identified prior to bidding because of the 3-inch grout layer that was present. Once the grout layer was removed, significant micro-cracks and water seepage was observed in both cells of Filter 18.

Approval of this amendment item is urgent to meet the crack injection subconsultant's availability and keep the project on schedule. The contractor has maintained work by moving staff and resources to Filter 9 until the repairs in Filter 18 are complete and ready for underdrain installation.

The amount of polyurethane injection crack repair exceeds the original bid quantity. An additional 498.25 LF for Bid Item 01-21 Expanding Polyurethane Resin Crack Injection at \$315.00 per LF is necessary to complete the work.

The milestone dates for Filter 18 and Filter 9 will be updated to September 23, 2022 and September 2, 2022, respectively. An additional 5 calendar days are added to the Final Completion date. Revised Final Completion date will be January 21, 2023.

Sincerely,

CAROLLO ENGINEERS, INC.



Rebecca Poole, PE  
Project Manager

RP:rp

cc: Ryan Smith, PE, SRB Inc.



## Request for Change Order/Amendment

<b>Project Name:</b>	Emergency Draper Filter Improvements – Draper Water Treatment Plant	<b>OCWUT Project No.:</b>	WT-0249-1
<b>Project Manager:</b>	Kamran Mokhtari	<b>Date of Award:</b>	06/10/2022
<b>Project Consultant:</b>	SRB, Inc. / Carollo Engineers	<b>Contractor:</b>	Wynn Construction
<b>Project Description:</b>	Demolition and replacement of filter underdrain systems and media in Filters 9 and 18; Inspection, replacement of filter underdrain caps, and media replacement in Filter 11.		
<b>Type of Change:</b>	<b>Construction</b>		
<b>Change Order:</b>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>Change Order No.</b> _____		
<b>Amendment</b>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>Amendment No.</b> <u>1</u>		
<b>Impact:</b>	Time/Schedule <input type="checkbox"/> None <input checked="" type="checkbox"/> Days <input checked="" type="checkbox"/> 5 Cost <input checked="" type="checkbox"/> \$ 156,948.75 Property <input type="checkbox"/> Public Health/Safety <input checked="" type="checkbox"/>		
<b>Reason for Urgency:</b>	While under construction in Filter 18, numerous cracks were discovered in the floor slab and floor/wall joints that could not be identified prior to bidding because of the 3-inch grout layer that was present. Once the grout layer was removed, significant micro-cracks and water seepage was observed in both cells of Filter 18. Approval of this amendment item is urgent to meet the crack injection subconsultant's availability and keep the over project on schedule. The contractor has maintained work by moving staff and resources to Filter 9 under Filter 18 is complete and ready for underdrain installation.		
<b>Attachments:</b>	Consultant Add'l Info <input checked="" type="checkbox"/> Recommendation Letter Construction Add'l Info <input checked="" type="checkbox"/> Cost Estimate Other:		
Will this be processed immediately for the next OCWUT Docket? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
<b>Comments/Notes:</b> The amount of polyurethane injection crack repair exceeds the bid quantity. An additional 498.25 LF will be added to Bid Item 01-21 Expanding Polyurethane Resin Crack Injection at \$315.00 per LF. The milestone dates for Filter 18 and Filter 9 will be updated to September 23, 2022 and September 2, 2022, respectively. An additional 5 calendar days are added to the Final Completion date. Revised Final Completion date will be January 21, 2023.			

### RECOMMENDED:

**Project Consultant:** Ryan Smith, PE, SRB Engineers 8/8/22  
Date

**Project Manager:** Kamran Mokhtari 8/8/2022  
Kamran Mokhtari, PE Date

**Project Supervisor:** Will Huggins, PE 8/11/2022  
Date

**Engineering Manager:** Crystal Kowalik, PE 8/11/22  
Date

APPROVED TO PROCEED PRIOR TO OCWUT DOCKET

Yes ☒ No ☐

**Director Signature:** Chris Browning  
Chris Browning Date



## Request for Change Order/Amendment

<b>Project Name:</b>	Emergency Draper Filter Improvements – Draper Water Treatment Plant	<b>OCWUT Project No.:</b>	WT-0249-1
<b>Project Manager:</b>	Kamran Mokhtari	<b>Date of Contract:</b>	06/10/2022
<b>Project Consultant:</b>	SRB, Inc. / Carollo Engineers	<b>Contractor:</b>	Wynn Construction

APPROXIMATE CHANGE IN CONTRACT COST:		
	Cost	% Change from Original
<b>Original Contract Cost:</b>	\$983,564.00	
<b>Total Previous Change Orders:</b>	\$0.00	0.00%
<b>Total Previous Amendments:</b>	\$0.00	0.00%
<b>Contract Cost prior to this CO/Amendment:</b>	\$983,564.00	
<b>Expected Cost Change from this Change Order:</b>	\$0.00	0.00%
<b>Expected Cost Change from this Amendment:</b>	\$156,948.75	15.96%
<b>Total Previous Change Orders + Expected Cost Change From This Change Order:</b>	\$983,564.00	0.00%
<b>Total Previous Amendments + Expected Cost Change from this Amendment:</b>	\$156,948.75	15.96%
<b>Total Expected Cost Changes from this Amendment/CO + Total Previous of Amendment/COs:</b>	\$156,948.75	15.96%
<b>Expected Contract Total after This CO/Amendment:</b>	\$1,140,512.75	

APPROXIMATE CHANGE IN CONTRACT TIMES:	
All Contract times are in Calendar days	
<b>Construction Start Date:</b>	06/10/2022
<b>Original Contract Duration:</b>	220 days
<b>Original Completion Date:</b>	01/16/2023
<b>Increase Previous Change Orders:</b>	0 Days
<b>Completion Date prior to this Change Order:</b>	01/16/2023
<b>Increase for this Change Order:</b>	5 days
<b>Completion Date Incorporating this Change Order:</b>	01/21/2023

WT-0249-01 Emergency Filter Improvements Draper WTP  
Ammendment No 1.  
7/21/2022 Revision No. 1

Undersealing of Floor Filter No. 18  
Expanding Polyethylene Crack Injection

Change Description:

Injection of geopolymer fill in void areas under filter no. 18 floor.

Injection of Polyurethane Crack Injection

	Description	QTY	U/M	Unit Price	Labor	Material	Equipment	Sub	Totals
	<b>Labor:</b>								
	Dewater vac dry basin basin	4	EA	3,500.00	14,000.00				
	Re-clean mud/debris after Uretek injection	1	LS	8,650.00	8,650.00				
	ADMIN	70	MH	150.00	10,500.00				
	<b>Subcontractor:</b>								
	Restek/ URETEK - Material Installation	5440	LBS	16.00				87,040.00	
	Restek/ URETEK - Mobilization	1	EA	4,600.00				4,600.00	
	Safety Consultant	1	EA	750.00				750.00	
	<b>Materials:</b>								
	Dumpster	2	EA	900.00		1,800.00			
	<b>Equipment:</b>								
	Sump Pumps	12	Day	220.00			2,640.00		
	Vacuums	18	DAY	220.00			3,960.00		
	Forklift	5	DAY	320.00			1,600.00		
	Temp Lighting	12	DAY	95.00			1,140.00		
	Truck	12	DAY	100.00			1,200.00		
	<b>Subtotals:</b>				33,150.00	1,800.00	10,540.00	92,390.00	137,880.00
	<b>Subtotals:</b>				33,150.00	1,800.00	10,540.00	92,390.00	137,880.00
	Sales Tax								167.80
	<b>Total Amount this Proposal</b>								<b>138,048.75</b>
	Add 35 days to filter no. 18.								

Bid Item 01-21	Additional Polyurethane Crack Injection under Filter #18 Floor (Restek/ Uretek)	438.25 LF	315.00						\$ 138,048.75
Bid Item 01-21	Additional Polyurethane Crack Injection Filter #18 Walls and Corners (Restek)	60 LF	315.00						\$ 18,090.00
<b>Bid Item 01-21</b>	<b>Total Amendment</b>	<b>498.25 LF</b>	<b>315.00</b>						<b>\$ 156,948.75</b>