



June 24, 2024

Honorable Chairman and Trustees
Oklahoma Water Utilities Trust
420 West Main St.
Oklahoma City, OK 73102

Subject: **Change Order No. 2 and Amendment No.1 Summary**
Project No. WT-0151
Hefner Water Treatment Plant Ozone System Expansion / Upgrades
DWSRF Project No. P40-1020902-09 and P40-1020902-10

Honorable Chairman and Trustees:

Change Order Number 2 (CO2) and Amendment No.1 (Am1) for the above referenced project pertains to the incorporation of the following into the scope of work for the contractor.

I. **SCOPE:**

Change Order No. 2 and Amendment No.1 will modify and take precedence over the original plans and specifications. Change Order No. 2 and Amendment No.1 add additional work necessary and modifies the total contract price for the completion of the project.

II. **JUSTIFICATION:**

Amendment No. 1 contains both decreases and increases in final quantities associated with the Bid Items and alters the contract price to reconcile the actual quantities utilized with those included in the bid.

Change Order No. 2 is necessary because of the following:

- **CO 2.1 Cooling Water Pipe Material Change:** Change Order 2.1 is based on RFI #083 and PCO #014 substituting Mortar lined carbon steel pipe with mortar lined and coated ductile iron pipe for the Ozone cooling water supply and Cooling water return systems.

The contractor's substitution request relates to substitution of pipe material for the Ozone Cooling water supply and return piping. This change is requested by the contractor due to schedule impacts from the procurement and fabrication of the cement lined carbon steel pipe in diameter of 10" and under.

- **CO 2.2 Electrical Manhole (EMH) and Pavement Modification:** Change Order 2.2 is based on DCM 002 which involved the modification of the chemical building pavement. The modification involved deduction of pavement replacement and the addition of a cast in place reinforced manhole within the chemical building pavement in place of the existing fiberglass manhole for the conduit/cables for the plant electrical loop.

- **CO 2.3 HDPE Chemical Containment line Change:** Change Order 2.3 is based upon, RFI #108 and PCO #023. The change order item relates to the deductive cost to remove a portion of the double contained chemical feed piping and associated manholes for the fluoride chemical feed piping.
- **CO 2.4 NCN's, Submittal Reviews, and Substitution Requests:** Change Order 2.4 is a reimbursement Engineer's costs associated with the Non-Conformance notifications, additional submittal reviews, and review and processing of Contractor generated substitution requests in accordance with the Special Provisions of the contract documents.
- **CO 2.5 Soft Starter for PMP30301 Change:** Change Order 2.5 is based on RFI# 098, RFI# 106 and PCO # 026. The change order item relates to the additional cost to change the starter for the polymer mixing system hose pump from a reversible starter to a reduced voltage soft start located in MCC-CHEM to facilitate hose changeout.
- **CO 2.6 Additional pH and Temperature Instruments:** Change Order 2.6 is a change order to the contract that was discussed in RFI #120 and in PCO #030. The change order item relates to the additional costs to provide, install, test and commission a new pH probe and temperature sample panel in the existing High Service Pump Station. This will enable the plant to better calculate the total disinfection provided in the existing 84-inch filter effluent line.
- **CO 2.7 Ozone Generator Room Floor Drain Change:** Change Order 2.7 is a change order based on RFI# 116 and PCO #032. The change order item relates to the additional costs to relocate the existing floor drains in the ozone room to accommodate the new ozone generation pads.
- **CO 2.8 Chemical Feed Vault Replacement:** Change Order 2.8 is a change order based on PCO #033. The change order item relates to the additional costs to provide, install, test, and commission a new cast in place concrete vault on the existing 84-inch filter effluent pipe. It also includes the demolition of the deteriorated vault and repair the existing 84-inch filter effluent pipe.
- **CO 2.9 LOX Tank Structural Supports:** Change Order 2.9 is a change order based on PCO #035. The change order item relates to the additional costs to provide, install, test, and commission structural supports for the new LOX tanks to satisfy current seismic codes.
- **CO 2.10 Additional Conduit and Wire for VCP Ethernet:** Change Order 2.10 relates to PCO #039. This change order items relates to the additional cost to provide, install, test, and commission new conduit and wire to network the chemical building VCP's with PCM 015.

III. COST ESTIMATE

AMENDMENT NO. 1

INCREASE

Bid Item	Description	Unit	Unit Price	Plan Quantity	Revised Quantity	Quantity Increase	Amended Cost
01-25	Additional Slab Sodding	SY	\$7.50	60	650	590	\$4,425.00
01-41	4-inch Conduit and Wire Assemblies	LF	\$345.00	200	226	26	\$8,970.00
TOTAL AMENDMENT NO. 1 ADDITION							\$ 13,395.00

DECREASE

Bid Item	Description	Unit	Unit Price	Plan Quantity	Revised Quantity	Quantity Decrease	Amended Cost
01-08	24 – Inch Drilled Piers	VLF	\$215.00	1250	881.38	368.62	(\$79,253.30)
01-09	Permanent Casing 24-inch Piers	VLF	\$52.00	1250	0	1250	(\$65,000.00)
01-12	Concrete Repairs - Crack Injection	LF	\$48.00	500	250	250	(\$12,000.00)
01-13	Concrete Repairs - Crack Mortar	LF	\$48.00	300	150	150	(\$7,200.00)
01-14	Concrete Repairs - Concrete Patching	SF	\$140.00	1000	500	500	(\$70,000.00)
01-15	Concrete Repairs - Concrete Sealant	SF	\$45.00	2500	1250	1250	(\$56,250.00)
01-16	Concrete Repairs - Waterproof Slurry	LF	\$25.00	1000	729	271	(\$6,775.00)
01-17	Removal and Disposal of Residuals	CY	\$64.00	3200	1600	1600	(\$102,400.00)
01-19	Additional Imported Select Backfill	CY	\$38.00	300	250	50	(\$1,900.00)

Bid Item	Description	Unit	Unit Price	Plan Quantity	Revised Quantity	Quantity Decrease	Amended Cost
01-20	Additional CLSM	CY	\$100.00	500	0	500	(\$50,000.00)
01-26	Additional 16-inch DI Recycle Line Pipe	LF	\$265.00	200	0	200	(\$53,000.00)
01-27	Additional 16-inch DI Fittings	EA	\$3,800.00	12	0	12	(\$45,600.00)
01-29	Additional Chemical Containment Pipe and Tubing	LF	\$195.00	250	0	250	(\$48,750.00)
01-30	Additional Chemical Containment Manhole Assembly	EA	\$4,000.00	4	0	4	(\$16,000.00)
01-32	Additional/Deductive 24-inch Uncased Peir Length	VF	\$53.00	100	0	100	(\$5,300.00)
01-33	Additional/Deductive 24-inch Permanent Casing	VF	\$96.00	100	0	100	(\$9,600.00)
TOTAL AMENDMENT NO. 1 DEDUCTION							(\$629,028.30)

TOTAL AMENDMENT NO. 1 ADDITIONS AND DEDUCTIONS (\$615,633.30)

CHANGE ORDER NO. 2

INCREASE

Bid Item	Description	Unit	Unit Price	Revised Quantity	Quantity Increase	Cost Increase
CO 2.5	Soft Starter for PMP30301 Change	LS	\$9955.02	1	1	\$9,955.02
CO 2.6	Additional pH and Temperature Instruments	LS	\$16,566.08	1	1	\$16,566.08
CO 2.7	Ozone Generator Room Floor Drain Change	LS	\$14,077.00	1	1	\$14,077.00

CO 2.8	Chemical Feed Vault Replacement	LS	\$544,627.00	1	1	\$544,627.00
CO 2.9	LOX Tank Structural Supports	LS	\$47,454.98	1	1	\$47,454.98
CO 2.10	Additional Conduit and Wire for VCP Ethernet	LS	\$41,366.00	1	1	\$41,366.00
TOTAL CHANGE ORDER NO. 2 ADDITION						\$674,046.08

DECREASE

Bid Item	Description	Unit	Unit Price	Revised Quantity	Quantity Decrease	Cost Decrease
CO 2.1	Cooling Water Pipe Material Change	LS	(\$40,000.00)	1	1	(\$40,000.00)
CO 2.2	EMH and Pavement Modification	LS	(\$63,885.31)	1	1	(\$63,885.31)
CO 2.3	HDPE Chemical Containment line change	LS	(\$13,143.06)	1	1	(\$13,143.06)
CO 2.4	NCN's, Submittal Reviews, and Substitution Request	LS	(\$14,173.00)	1	1	(\$14,173.00)
TOTAL CHANGE ORDER NO. 2 DEDUCTION						(\$131,201.37)
TOTAL CHANGE ORDER NO. 2 ADDITION AND DEDUCTIONS						\$542,844.71



IV. COST SUMMARY:

Original Contract Amount	\$44,432,000.00
Change Order No. 1	\$222,971.97 (0.50% increase)
Change Order No. 2	\$542,844.71 (1.22% increase)
Amendment No. 1	(\$615,633.30) (1.39% decrease)
Revised Contract Amount	\$44,582,183.38

Change order No. 2 represents an increase of \$542,844.71 or 1.22 percent above the original contract amount. Total change orders to date represent an increase of \$765,816.68 or 1.72 percent above the original contract amount. Amendment No. 1 represents a decrease of \$615,633.30 or 1.39 percent below the original contract amount. Change order No. 2 and Amendment No. 1 represents a net decrease of \$72,788.59 or 0.16 percent below the original contract amount. Total change orders and amendments to date represent an increase of \$150,183.38 or 0.34 percent above the original contract amount. The revised contract amount is \$44,582,183.38.

V. CONTRACT TIME:

The table below summarizes the milestone dates specified in the original contract and the impact of this change order on the established contract times. The original contract called for 550 calendar days for the substantial completion of the new chemical building, 1,035 calendar days for the Substantial Completion of the project and 1,095 calendar days for the Final Completion of the project. This change order No. 2 does not modify these contract times. As a result, the contract milestones remain as originally specified.

Summary of Contract Milestones									
Description	Substantial Completion – Chemical Building			Substantial Completion of Project WT-0151			Final Completion of Project WT-0151		
	Increase/ (Decrease)	Cal Days	Date	Increase/ (Decrease)	Cal Days	Date	Increase/ (Decrease)	Cal Days	Date
Notice to Proceed		NA	05/12/22	NA		05/12/22	NA		05/12/22
Original Contract	0	550	11/23/23	0	1035	03/12/25	0	1095	05/11/25
Change Order No. 1	0	550	11/23/23	0	1035	03/12/25	0	1095	05/11/25
Change Order No. 2	0	550	11/23/23	0	1035	03/12/25	0	1095	05/11/25



Change Order No. 2
Project WT-0151 Oklahoma Water Utilities Trust
June 24, 2024

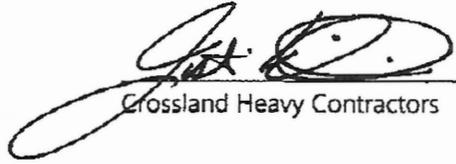
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The above and foregoing is hereby accepted this 25TH day of JUNE, 2024; and the undersigned agrees to perform the work at the price indicated.

ATTEST:



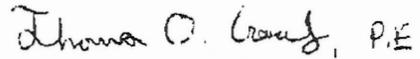
Witness



Crossland Heavy Contractors

The prices for Change Order No. 1 were established through negotiation and appear to be fair and reasonable.

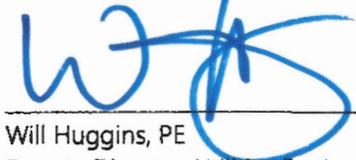




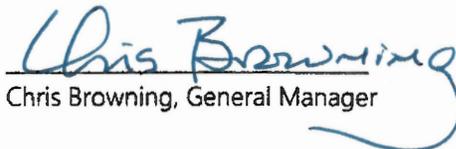
Thomas O. Crowley, P.E.

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Approval is recommended.



Will Huggins, PE
Deputy Director, Utilities Engineering



Chris Browning, General Manager



Debbie Miller, P.E., Director for
Public Works/City Engineer

APPROVED by the Trustees and signed by the Chairman of the Oklahoma City Water Utilities Trust this 16TH day of JULY, 2024.

ATTEST:

Amy K Simpson
SECRETARY

 Joe Couch
CHAIRMAN

CONCURRED by the Council and signed by the Mayor of The City of Oklahoma City this 30TH day of JULY, 2024.

ATTEST:

Amy K Simpson
CITY CLERK

 David Holt
MAYOR

REVIEWED for form and legality.

Craig B Keith
GENERAL COUNSEL/
ASSISTANT MUNICIPAL COUNSELOR

