

**LAWRENCE, KANSAS
DIGESTER IMPROVEMENTS PROJECT**

**CITY PROJECT NO. WW0601
CITY BID NO. B1106
BLACK & VEATCH PROJECT NO. 165210**

CHANGE ORDER NO. 4

This Change Order No. 4 covers adjustments to the Contract Time and Contract Price, which result from the changes in the work described herein. Included in this Change Order are Items CO4-1, initiated to re-coat the existing access hatches on Digester No. 1; CO4-2, initiated to relocate the pressure/vacuum relief valves; CO4-3, initiated to enclose the 10-inch digester gas pipe; CO4-4, initiated to remove and land spread additional sludge from digesters; CO4-5, initiated to update equipment tags to current standard tagging system; CO4-6, initiated to provide new sight glass windows on Digester Number 1; CO4-7, initiated to eliminate quarry tile flooring in the Gas Control Building; and CO4-8, initiated to add concrete floor sealer in the Gas Control Building.

Item CO4-1. Re-coat the Existing Access Hatches on Digester No. 1.

Initiated by: Owner/Engineer

This modification covers the removal of two (2) side access hatches, sandblasting the blind flanges and castings embedded in the concrete, coating the interior of the castings and blind flanges with coal tar epoxy, coating the exterior of the castings and blind flanges with epoxy and polyurethane, and replacing caulking along the joint between the side access hatches and the brick. This change results in an increase in Contract Price of \$10,864.00. This change represents an increase of fourteen (14) calendar days in Contract Time.

Item CO4-2. Relocate the Pressure/Vacuum Relief Valves.

Initiated by: Engineer/Owner

This modification covers the removal of the existing pressure/vacuum relief valves, adding additional piping and supports, and re-installing the pressure/vacuum relief valves on the roof of Digester No. 3 thus reducing explosion potential. This change results in an increase in Contract Price of \$15,570.00. This change represents an increase of zero (0) calendar days in Contract Time.

Item CO4-3. Enclose the 10-Inch Digester Gas Pipe.

Initiated by: Engineer/Owner

This modification covers the addition of light gage metal framing, densdeck boards, and roofing membranes to build an enclosure around the 10-inch gas pipe from Digester No. 3. This change is to facilitate installation of the roofing membrane with adequate encapsulation of penetrations to prevent leaks in the Sludge Control Building roof. This change results in an increase in Contract Price of \$3,205.00. This change represents an increase of zero (0) calendar days in Contract Time.

Item CO4-4. Remove and Land Spread Additional Sludge from Digesters.

Initiated by: Owner/Engineer

This modification covers the removal and land spreading of additional sludge in Digesters No. 1 & 2. The actual volume of sludge in Digester Nos. 1 & 2 exceeded the estimated volumes in the Contract Documents, and this item covers the additional cost associated with the extra sludge volume that could not be removed. This change results in an increase in Contract Price of \$18,490.00. This change represents an increase of zero (0) calendar days in Contract Time.

Item CO4-5. Update Equipment Tags to Current Standard Tagging System.

Initiated by: Owner/Engineer

This modification covers the removal of existing valve tags, and the installation of new tags conforming to the current standard tagging system, as well as the incremental cost to revise the new equipment and valve tags to the current standard tagging system. This change results in an increase in Contract Price of \$2,059.00. This change represents an increase of zero (0) calendar days in Contract Time.

Item CO4-6. Provide New Sight Glass Windows on Digester No. 1.

Initiated by: Owner/Engineer

This modification covers the replacement of the six (6) existing sight glasses on Digester No. 1 with new sight glasses. This change results in an increase in Contract Price of \$994.00. This change represents an increase of zero (0) calendar days in Contract Time.

Item CO4-7. Eliminate Quarry Tile flooring in the Gas Control Building.

Initiated by: Owner/Engineer

This modification covers the elimination of quarry tile flooring in the Gas Control Building rooms 101 and 102. This change results in a decrease in Contract Price of (\$6,679.00). This change represents an increase of zero (0) calendar days in Contract Time.

Item CO4-8. Add Concrete Floor Sealer in the Gas Control Building.

Initiated by: Owner/Engineer

This modification covers the addition of concrete floor sealer in the Gas Control Building rooms 101 and 102. This change results in an increase in Contract Price of \$928.00. This change represents an increase of zero (0) calendar days in Contract Time.

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SUMMARY

CHANGE ORDER NO. 4

The Contract Price shall be modified as follows as a result of the changes described by this modification request. Additions to the Contract amount are indicated by a "+" in front of the amount, deductions by a "-".

<u>Effect on Contract Amount</u>		Increase/Decrease In Contract Price (+/-)
<u>Item</u>	<u>Description</u>	<u>Price</u>
CO4-1	Re-coat the Existing Access Hatches on Digester No. 1	+\$10,864.00
CO4-2	Relocate the Pressure/Vacuum Relief Valves	+\$15,570.00
CO4-3	Enclose the 10-Inch Digester Gas Pipe	+\$3,205.00
CO4-4	Remove and Land Spread Additional Sludge from Digesters	+\$18,490.00
CO4-5	Update Equipment Tags to Current Standard Tagging System	+\$2,059.00
CO4-6	Provide New Sight Glass Windows on Digester No. 1	+\$994.00
CO4-7	Eliminate Quarry Tile Flooring in Gas Control Building	-\$6,679.00
CO4-8	Add Concrete Floor Sealer in Gas Control Building	+\$928.00
	Total for CO 4	<u>\$45,431.00</u>
	BID AMOUNT OF ORIGINAL CONTRACT	\$3,130,000.00
	PREVIOUS CHANGE ORDER ADJUSTMENTS	<u>\$65,165.00</u>
	CURRENT CONTRACT AMOUNT	\$3,195,165.00
	CHANGE ORDER NO. 4	<u>+\$45,431.00</u>
	ADJUSTED CONTRACT AMOUNT	\$3,240,596.00

Effect on Contract Time

CO4-1	Re-coat the Access Hatches on Digester No. 1	Fourteen (14) days
CO4-2	Relocate the Pressure/Vacuum Relief Valves	Zero (0) days
CO4-3	Enclose the 10-Inch Digester Gas Pipe	Zero (0) days
CO4-4	Remove and Land Spread Additional Sludge from Digesters	Zero (0) days
CO4-5	Update Equipment Tags to Current Standard Tagging System	Zero (0) days
CO4-6	Provide New Sight Glass Windows on Digester No. 1	Zero (0) days
CO4-7	Eliminate Quarry Tile Flooring in Gas Control Building	Zero (0) days
CO4-8	Add Concrete Floor Sealer in Gas Control Building	Zero (0) days
Total days		Fourteen (14) Calendar Days

This change order has added fourteen (14) calendar days to the Contract Time, the new Substantial Completion date is August 17, 2012, and the new Final Completion date is September 18, 2012.

This change order includes all costs, direct, indirect, and consequential, and all changes in Contract Time arising from the work included in items CO4-1 through CO4-8. No additional claims shall be made for changes in Contract Price or Contract Time arising from these work items.

All other provisions of the contract remain unchanged.

Agreed to this _____ day of _____, 2012

Recommended:
Black & Veatch Corporation

Approved:
City of Lawrence

By: _____

By: _____
City Manager

Date: _____

Date: _____

Approved:
Walters Morgan Construction Co., Inc.

By: _____

Date: _____