



Strand Associates, Inc.®

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July 14, 2015

Dr. Fred Abadi, Ph.D, P.E.
Director of Public Works
City of Waukesha
130 Delafield Street
Waukesha, WI 53188-3616

Re: Change Order No. 2
Wastewater Treatment Plant Improvements
City of Waukesha, Wisconsin

Dear Dr. Abadi:

Enclosed are three copies of Change Order No. 2 and documentation for the change order items for your review and approval. If these are acceptable, please sign and return all copies to Strand Associates, Inc.® This letter also summarizes the items included in Change Order No. 2.

Item 2a–Delete Structure 500 water softener

This item is a credit for deletion of the water softener at the Administration Building. An alternative water softener was installed by the City of Waukesha based on updated WWTP chloride reduction goals. Deduct \$1,130.00.

Item 2b–Unforeseen underground conditions

These costs are for tracked time spent by the underground contractor to remove unforeseen foundations or otherwise contend with unexpected underground conditions during pipe installation. Add \$3,786.00.

Item 2c–Louver size changes

These costs are for increases to louver sizes to accommodate existing openings. Add \$9,822.00.

There is no increase beyond what would have been included in the bid had the alternate louver sizes been shown on the bidding documents.

Item 2d–Finish changes at Structures 250 and 310

This is a zero cost change to the finish schedule for the referenced buildings. It is included in the change order to document the change to the Contract Documents.

Item 2e–Reroute conduit around roof penetration in Structure 400

This cost is for rerouting conduits discovered in the roof slab to accommodate a heating, ventilation, and air-conditioning roof penetration. An alternative location for the roof penetration was not feasible. Add \$7,311.00.

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Item 2f–Colored mortar for exterior brick at Structure 500

This cost is for providing colored mortar at the Administration Building to match the existing mortar. Add \$699.00.

There is no increase beyond what would have been included in the bid had the colored mortar been specified in the bidding documents.

Item 2g–Powder coat aluminum overhead doors

This cost is for powder coating the new aluminum overhead doors to match the existing and new steel overhead doors at the WWTP. Add \$2,575.00.

There is no increase beyond what would have been included in the bid had the powder coating been specified in the bidding documents.

Item 2h–Delete blower witness testing

This item is a credit for elimination of the witness testing for the aeration blowers. Certified manufacturer testing is acceptable. Deduct \$6,500.00.

Item 2i–Change MCC breakers

This item is a credit for changes to the MCC breakers based on manufacturer comments during the shop drawing review process. Deduct \$1,540.00.

Item 2j–Break Room soffit and duct modifications

These costs are for changes to accommodate conflicts between duct, piping, and electrical conduit at the Break Room in the Administration Building. Add \$8,562.00.

There is no increase beyond what would have been included in the bid had soffit been shown in the bidding documents. The existing construction of the Administration Building required that a soffit be installed to accommodate the updated HVAC, plumbing, and electrical services.

Item 2k–Patching in accordance with roof warranty in lieu of sheet metal

This cost is for patching the roof of Structure 510 where equipment was removed. The roof, which had recently been installed, was patched to maintain the existing warranty in lieu of using sheet metal covers. Add \$3,746.00.

There is no increase beyond what would have been included in the bid had patching in accordance with the existing roof warranty been shown on the bidding documents.

Item 2l–Metal panel at Vehicle Storage of Structure 500

This cost is for the addition of metal panels at vehicle storage that were required to seal the precast roof plank connection. Add \$4,814.00.

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

Item 2m–Unforeseen underground conditions at service entrance switchgear

These costs are for tracked time spent by the contractor to remove unforeseen foundations that had been abandoned during a previous construction project. The unforeseen structures needed to be removed for construction of the footings for the service entrance switchgear. Add \$5,884.00.

Item 2n–Structure 500 stairway changes

These costs are for the addition of a fire-rated wall in the existing north stairwell of Structure 500. A fire-rated wall is required by current code to maintain a path of egress from the second floor. Add \$7,736.00.

There is no increase beyond what would have been included in the bid had the fire-rated enclosure been shown on the bidding documents.

Item 2o–Window changes at Structure 500

These costs are for changes to the window schedule to match the design intent for the offices in Structure 500. Add \$3,231.00.

There is no increase beyond what would have been included in the bid had the fire-rated enclosure been shown on the bidding documents.

Item 2p–Laboratory turret piping

These costs are for additional laboratory turrets and piping to provide additional work space in the laboratory. Add \$2,194.00.

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

Item 2q–Structure 250 stair changes

These costs are for the addition of a fire-rated wall in the existing east stairwell of Structure 250. A fire-rated wall is required by current code to maintain a path of egress from the basement. Add \$10,102.00.

There is no increase beyond what would have been included in the bid had the fire-rated enclosure been shown on the bidding documents.

Item 2r–Centrate storage tank cover

This item is a credit for deletion of surface preparation and painting of the centrate storage tank cover. Surface preparation was not feasible because lead-based paint was discovered under the existing cover insulation. The existing cover insulation will remain. Deduct \$19,758.00.

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Item 2s–Adjustment to final clarifier allowance

These costs are for rehabilitation of two final clarifiers due to the poor structural condition of the clarifier components discovered during the project. Rehabilitation includes replacement of the center column, replacement of the A-frame assemblies, installation of stainless steel cladding on the scum beach, replacement of the skimmer squeegee, and rebuilding the existing drive. Painting was deleted from the other two clarifiers to offset some of the cost from this rehabilitation. Add \$127,186.00.

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

Item 2t–Structure 530 and truck scale painting

This item is a credit for deleting painting at Structure 530, deleting abrasive blasting at Structure 515, adding painting at the truck scale, and adding painting at the exterior piping of Structure 110. Deduct \$39,920.00.

Item 2u–Adjustment to electrical service allowance

This is an adjustment for the remaining electrical service cash allowance. The new high voltage electrical service has been installed and all work under this allowance is complete. Deduct \$53,446.83.

Item 2v–Adjustment to project contingency allowance

This is an adjustment to the project contingency allowance to accommodate this change order. Deduct \$75,333.17.

The sum of the above items in Change Order No. 2 results in a net change of \$0.

Please call me with any questions.

Sincerely,

STRAND ASSOCIATES, INC.®



Vernon C. Witthuhn, Jr., P.E.

Enclosure



July 14, 2015

CHANGE ORDER NO. 2

PROJECT: Wastewater Treatment Plant Improvements
 OWNER: City of Waukesha
 CONTRACT: 1-2013
 CONTRACTOR: C.D. Smith Construction, Inc.

Description of Change

2a	Delete Structure 500 water softener (WCD018).	DEDUCT	(\$1,130.00)
2b	Unforeseen underground conditions (WCD019).	ADD	\$3,786.00
2c	Louver size changes (CPR024).	ADD	\$9,822.00
2d	Finish changes at Structures 250 and 310 (WCD021).	ADD	\$0.00
2e	Reroute conduit around roof penetration in Structure 400 (WCD020).	ADD	\$7,311.00
2f	Colored mortar for exterior brick at Structure 500 (WCD022).	ADD	\$699.00
2g	Powder coat aluminum overhead doors (WCD023).	ADD	\$2,575.00
2h	Delete blower witness testing (WCD024).	DEDUCT	(\$6,500.00)
2i	Change MCC breakers (CPR014).	DEDUCT	(\$1,540.00)
2j	Break Room soffit and duct modifications (CPR017).	ADD	\$8,562.00
2k	Patching in accordance with roof warranty in lieu of sheet metal (WCD025).	ADD	\$3,746.00
2l	Metal panel at Vehicle Storage of Structure 500 (WCD026).	ADD	\$4,814.00
2m	Unforeseen underground conditions at service entrance switchgear (WCD027).	ADD	\$5,884.00
2n	Structure 500 stairway changes (CPR025).	ADD	\$7,736.00
2o	Window changes at Structure 500 (WCD028).	ADD	\$3,231.00
2p	Laboratory turret piping (WCD029).	ADD	\$2,194.00
2q	Structure 250 stair changes (CPR027).	ADD	\$10,102.00
2r	Centrate storage tank cover (CPR029).	DEDUCT	(\$19,758.00)
2s	Adjustment to final clarifier allowance (CPR026).	ADD	\$127,186.00
2t	Structure 530 and truck scale painting (CPR018).	DEDUCT	(\$39,920.00)
2u	Adjustment to electrical service allowance.	DEDUCT	(\$53,466.83)
2v	Adjustment to project contingency allowance.	DEDUCT	(\$75,333.17)
TOTAL VALUE OF THIS CHANGE ORDER:		ADD	\$0.00

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Contract Price Adjustment


Original Contract Price	\$41,800,000.00
Previous Change Order Adjustments	(\$13,142.00)
Adjustment in Contract Price this Change Order	\$0.00
Current Contract Price including this Change Order	\$41,786,858.00

Contract Completion Date Adjustment

Original Contract Completion Date	July 23, 2016
Contract Completion Date Adjustments due to previous Change Orders	0 days
Contract Completion Date Adjustments due to this Change Order	0 days
Current Contract Completion Dates including all Change Orders	July 23, 2016

This document shall become a supplement to the Contract and all provisions will apply hereto.

RECOMMENDED



ENGINEER–Strand Associates, Inc.®

7/14/15

Date

APPROVED

CONTRACTOR–C.D. Smith Construction, Inc.

Date

APPROVED

OWNER–City of Waukesha

Date