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CHANGE ORDER

Department of Engineering Services
 City of Corpus Christi, Texas

CHANGE ORDER NO: 4 FUNDING SOURCE: 4248-150725 CONTRACT TIME: ✓455 C.D.
 Operating Department: Wastewater DATE: June 9, 2014
 Name of Project: Allison WWTP New Mech. Bar Screen and Grit Removal Improvements
City Project No. 7417
 Contractor: R.M. Wright Construction Co.

CHANGE

ADD

Deduct

Add or Deduct the following items to the contract: See Attached Breakdown

- 1. East Aeration Basins cleaning and aeration system rehabilitation. \$296,169.09
- 2. Removal of excess grit from Grit Removal Unit. \$49,034.80
- 3. Deduct unused quantities to adjust for final. (\$12,865.00)
- 4. Add additional quantities for widening and extending driveway to New Mech. Bar Screen Unit and extending retaining wall. \$16,559.00

E7417CWR \$348,897.89

550910-4249-00000-150725

TOTAL ADD: \$348,897.89 ✓

Why was this change necessary? (If left off the plans and specifications explain why?)
W. Aeration rehab'd in original scope and E. Aeration needs the same. Between design and construction the grit basin filled with grit and contract did not account for the additional quantity. Staff requested wider and longer concrete driveway for better access to screenings containers.

How can similar changes be avoided in the future? Unavoidable. Problems and issues not determined until construction was underway.

A. CONTRACT PRICE.....	\$ 2,772,662.00 ✓
B. TOTAL CHANGE ORDERS (inc. current).....	\$ 509,198.89 ✓
C. NEW CONTRACT PRICE.....	\$ 3,281,860.89 ✓
D. THIS CHANGE ORDER.....	\$ 348,897.89 ✓
E. PERCENT TOTAL CHANGE (B/A).....	18.4% <i>18.6/13/14</i>
F. PREVIOUS TIME AUTHORIZED.....	76 C.D. ✓
G. ADD'L CONTRACT TIME THIS CHANGE ORDER..	192 C.D. ✓
H. TOTAL ADDITIONAL TIME.....	268 C.D. ✓

Mike Maroney
 Project Manager
[Signature]

CITY OF CORPUS CHRISTI, TEXAS

CONTRACTOR

By: _____
 Director of Engineering Services

By: _____

Title: president

APPROVED: *[Signature]* Operating Department 4249
[Signature] Director of Management & Budget
[Signature] Legal Department

RECEIVED
 JUN 12 2014
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**CHANGE ORDER NO. 4 ATTACHMENT
ALLISON WWTP MECH BAR SCREEN - CITY PROJECT NO. 7417**

June 9, 2014

DESCRIPTION	QTY.	UNIT	UNIT PRICE	AMOUNT
EAST AERATION BASIN IMPROVEMENTS				
1. Bonds, Insurance, Labor, Overhead	1	LS	\$163,885.00	\$163,885.00
2. Clean Six Existing Aeration Basins	1	LS	\$74,955.00	\$74,955.00
3. Reinstall Missing Air Drops to Air Piping [1]	47	EA	\$176.85	\$8,311.95
4. Provide New For Missing Air Drops [2]	15	EA	\$400.00	\$6,000.00
5. Replace Air Drop Tees/Orifices with New	20	EA	\$150.00	\$3,000.00
6. Provide New Lower Diffusers if Missing	20	EA	\$37.50	\$750.00
7. Replace Air Drop Lower Clamp Supports	150	EA	\$26.67	\$4,000.50
8. Reinstall Air Drop Lower Clamp Supports	75	EA	\$10.00	\$750.00
9. Replace Existing Air Drop Lower Support Angle	426	LF	\$26.55	\$11,310.30
10. Replace Existing Air Drop Wall Support Angle	66	EA	\$160.61	\$10,600.26
11. Replace 8" Air Piping Couplings	24	EA	\$366.67	\$8,800.08
12. Haul Off Solids from Aeration Basins	50	Tons	\$29.12	\$1,456.00
13. Landfill Disposal Cost	50	Tons	\$47.00	\$2,350.00
EAST AERATION BASIN REHAB SUB-TOTAL				\$296,169.09

[1] There are 47 air drops counted as missing.

[2] Provide and install new air drops for those not found in tank or at the plant.

REMOVAL OF EXCESS GRIT FROM GRIT REMOVAL UNIT

1. Equipment and Labor to Remove Excess Grit	1	LS	\$22,474.00	\$22,474.00
2. Haul Off Excess Grit from Grit Removal Unit	340	Tons	\$31.12	\$10,580.80
3. Landfill Disposal Cost	340	Tons	\$47.00	\$15,980.00
EXCESS GRIT REMOVAL SUB-TOTAL				\$49,034.80

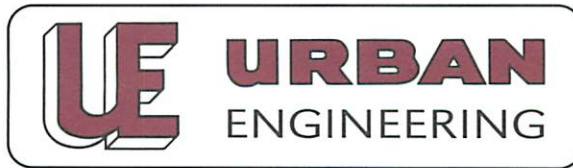
DEDUCT THE FOLLOWING BID ITEMS FROM THE CONTRACT

6. 4" Thick Sidewalk	-123	SF	\$5.00	(\$615.00)
AAA2-4 Replace Air Drop Tees/Orifices with New	-20	EA	\$200.00	(\$4,000.00)
AAA2-5 Replace Air Drop Lower Clamp Supports	-150	EA	\$55.00	(\$8,250.00)
DEDUCTED QUANTITIES SUB-TOTAL				(\$12,865.00)

ADD THE FOLLOWING BID ITEM QUANTITIES TOTHE CONTRACT

7. Lime Stablized Subgrade	61	SY	\$9.00	\$549.00
8. 6" Thick Concrete Pavement	65	SY	\$60.00	\$3,900.00
9. 6" Block Curb	4	LF	\$15.00	\$60.00
10. Retaining Wall	5	LF	\$250.00	\$1,250.00
AAA2-3 Reinstall Missing Air Drops to Air Bridges	14	EA	\$150.00	\$2,100.00
AAA2-6 Reinstall Air Drop Lower Clamp Supports	174	EA	\$50.00	\$8,700.00
ADDED QUANTITIES SUB-TOTAL				\$16,559.00

CHANGE ORDER NO. 4 TOTAL \$348,897.89

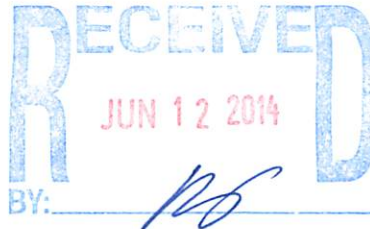


Job No. 16445.B1.00

June 12, 2014

TRANSMITTED VIA EMAIL
AND ORIGINAL MAILED

Mr. Albert Pardo, P.E.
City of Corpus Christi
Bldg 5
4917 Holly Rd.
Corpus Christi, Tx 78411



Subject: Allison WWTP Mechanical Bar Screen and Grit Removal Improvements
City Project No. 7417

Dear Mr. Pardo:

Attached please find four (4) sets of Change Order No. 4 for the subject project. Each has been signed by the contractor and myself. This change order involves the following:

1. East Aeration Basins: Draining and cleaning completely all five basins and rehabilitating the aerations system. The amount of solids in the existing basins is unknown. The Contractor will be paid for the actual amount of tons hauled and disposed of.
2. Excess Grit Removal: During the design phase the Grit Basin was drained and there was some grit observed in the bottom but the hopper bottom was not full. The Contract Documents did not indicate that the Contractor would have to deal with more than normally expected amount of grit in the basin. When the Grit Basin was taken out of service it was found that the hopper bottom was completely full and the grit stacked halfway up the remaining basin (approx. 8' deep above the hopper). It took them more than a week to remove all the grit to the sand drying beds. We calculated the total volume of grit removed to be approx. 400 tons and have deducted 60 tons for the hopper bottom that the contractor would have had to take care. That leaves 340 tons above what was anticipated. The Contractor will be paid for the actual amount of tons hauled and disposed of.
3. Deduct Unused Quantities: There are some quantities that were not used on this project.
4. Add Quantities: Items 7 to 10 were added quantities at the request of the Wastewater Dept. (at the time) to widen and extend the concrete driveway that provides access to the debris containers located under the New Mechanical Bar Screen structure. AAA2-3 and AAA2-6 were additional quantities necessary to complete the rehabilitation of the West Aeration Basin aeration system (they were done instead of items AAA2-4 and AAA2-5 noted in Item No. 3 above).

Not included in Item No. 3 is \$883.93 remaining in the Utility Allowance. We have left that as available in case there are in minor issues that arise from the East Aeration Basin work.

Mr. Albert Pardo, P.E.
June 12, 2014
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We arrived at the additional time noted on the change order based on what we believe is the status of the existing contract time as provided in the following;

Original Total Contract Time:	455 Calendar Days
Additional Time by Change Order:	<u>76 Calendar Days</u>
Total Time Authorized:	531 Calendar Days (through Change Order No. 3)

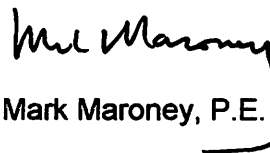
November 5, 2012:	Contract Time Started
April 20, 2014:	Contract Time Ended (after 531 C.D.s)

Anticipating Council approval by July 22, 2014 and three months for construction (through Oct. 29, 2014) amounts to 192 additional calendar days. Total additional days, including previous change orders, is then 268 Calendar Days.

Should you have any questions please call me. Anything we can do to expedite the change order would be appreciated. The Contractor has finished his original scope of work and he has left his equipment on site anticipating approval of the East Aeration Basin work.

Sincerely,

URBAN ENGINEERING



Mark Maroney, P.E.

MM/
Enclosure

xc: Mark Guerra, P.E. – Construction Services w/encl. via email
James Harris, P.E. – Capital Programs w/encl. via email
Daniel Deng, P.E. – Capital Programs w/encl. via email
Randy Wright, RM Wright Construction via email