

Change Order No. 1
Lexington-Fayette Urban County Government
West Hickman Wet Weather Storage and Wastewater Improvements Project

April 12, 2017

Part 1 – Contract Amount Changes

Item	Description	Unit	Estimated Quantity	Unit Price	Total Price
1-1	Credit for raising 8" tank foundation drain line and raising the two (2) 48" flume pipes at the Headworks	LS	1.0	(\$25,350.00)	(\$25,350.00)
1-2	Separate the generator controls/utility transfer controls from the generator breaker switch	LS	1.0	\$56,140.00	\$56,140.00
1-3	Anti-cavitation internals on (4) each flow control valves	LS	1.0	\$9,555.00	\$9,555.00
1-4	Removal of MH 4 and installation of 10x8 wye and cleanout at BPR Manhole	LS	1.0	\$3,542.00	\$3,542.00
1-5	Increased size of Grit Equipment control power and pump horsepower	LS	1.0	\$6,125.00	\$6,125.00
1-6	Delete VFD's from Odor Control Equipment	LS	1.0	(\$10,568.00)	(\$10,568.00)
TOTAL					\$39,444.00

NOTES:

Item 1-1

- A. The Contractor requested that the 8" tank foundation perimeter drain line be raised above the ductile iron process lines to avoid undermining the foundation of the tank with the pipe excavation. The credit is for the cost savings related to performing an excavation shallower than what the contract drawings called for. The request is tracked under RFI 003.
- B. The Contractor requested that the vertical profile of the two (2) 48" flume pipes from the Headworks to the Junction Chamber be raised above the 72" influent pipe. The credit is for the cost savings related to performing an excavation shallower than what the contract drawings called for and for the savings related to the concrete key blocks no longer being required. The request is tracked under RFI 006.

Item 1-2

- A. Measurement and payment for this item shall be on a lump sum basis for work completed, tested and operational to provide the generator controls and the utility transfer controls in a NEMA 1 switchgear line-up separate from the generator breaker switch.
- B. Item 1-2 includes all required conduit and wire changes from T.E.M. Electric.

Item 1-3

- A. Measurement and payment for this item shall be on a lump sum basis for work completed, tested and operational to provide anti-cavitation internals for flow control valves for the non-potable water system, four (4) valves total.

Item 1-4

- A. Measurement and payment shall be on a lump sum basis for work completed, tested and operational to install new 10-inch pipe and fittings to replace existing Manhole No. 4 on the drain line near the BPR Structure. This work is documented under Field Order No. 005

Item 1-5

- A. Measurement and payment shall be on a lump sum basis for work completed, tested and operational to provide the electrical changes necessary to accommodate the increased size of the control panel and increased pump horsepower as described below.
- B. Grit pump control panel is larger and takes more power than the basis of design unit. Circuit breaker upsized to 100 amp. Conduit and wire branch circuit upsized to accommodate.
- C. Grit pump horsepower is larger than basis of design. Safety disconnects upgraded to 60 amp each. Conduit and wire branch circuit upsized to accommodate.

Item 1-6

- A. In reviewing the odor control panel submitted with the associated Odor Control Equipment (SD 087) it was determined that the variable speed drives (VFD's) are included by the equipment vendor in the control panel. The credit is for the cost saving associated with deleting the VFD's from the MCC and replacing them with a 200 amp feeder bucket. LOS switches and control wiring to each of the Odor Control Fans are also being deleted.

MAY 15 2017



April 12, 2017

Vernon Azevedo, PE
Division of Water Quality
125 Lisle Industrial Avenue, Suite 180
Lexington, Kentucky 40511

*Re: West Hickman Wet Weather Storage Facility
Lexington-Fayette Urban County Government*

Dear Mr. Azevedo:

Tetra Tech has reviewed the attached change order proposed by Judy Construction Company (Judy). Following is a description of the change order items. Documentation and breakdowns of the change order requests are attached.

Item 1-1

Judy has provided a lump sum credit of \$7,605.00 to account for the cost savings related to raising the 8-inch foundation perimeter drain line for the South Storage Tank. Judy has provided a lump sum credit of \$17,745.00 to account for the savings related to raising the 48-inch flume pipes at the Headworks. RFI 003 and RFI 006, respectively, were created to document this work. The total credit amount for this item is **\$25,350.00**.

Item 1-2

Judy has provided a lump sum cost of **\$56,140.00** for providing the generator controls and the utility transfer controls in a NEMA 1 switchgear line-up separate from the generator breaker switch. This includes all required conduit and wire changes from T.E.M. Electric. The lump sum cost breakdown is as follows: \$26,112.00 – Separate Control Line-up; \$21,260.00 – Conduit, Wire, Labor; \$960.00 – Concrete Equipment Pad; \$7,250.00 – Overhead and Profit; \$558.00 – Bond.

Item 1-3

Judy has provided a lump sum cost of **\$9,555.00** for providing anti-cavitation internals for (4) flow control valves for the non-potable water system. The lump sum cost breakdown is as follows: \$7,760.00 – Anti-cavitation internals; \$466.00 - Sales tax; \$1,234.00 – Overhead and profit; \$95.00 – Bond.

Item 1-4

Judy has provided a lump sum cost of **\$3,542.00** to remove existing Manhole No. 4 and install new 10-inch pipe, 10-inch clean out, and required fittings to tie back together the existing 8-inch and 10-inch recycle lines that previously ran through Manhole No. 4. This work was documented in Field Order 005. The lump sum cost breakdown is as follows: \$720.00 – Labor; \$1,581.00 – Material; \$749.00 – Equipment; \$492.00 – Overhead and Profit.

Item 1-5

The grit equipment pump horsepower is greater than the basis of design. The pump control panel is also greater than the basis of design. The circuit breaker, conduit, and wiring all had to be upsized to accommodate this change. Judy has provided a lump sum cost of **\$6,125.00** to make

Tetra Tech, Inc.

10000 Woodloch Forest Drive
Lexington, KY 40511
760.228.8800



TETRA TECH

the electrical changes necessary to accommodate the increased size of the control panel and increased pump horsepower.

Item 1-6

In reviewing the odor control panel submitted with the associated Odor Control Equipment (SD 087) it was determined that the variable speed drives (VFD's) are included by the equipment vendor in the control panel. The credit is for the cost saving associated with deleting the VFD's from the MCC and replacing them with a 200 amp feeder bucket. LOS switches and control wiring to each of the Odor Control Fans are also being deleted. The total credit for this item is **\$10,568.00**

The total estimated cost of the change order is **\$39,444.00**. Please see the attached Change Order No. 1 provided for a unit price and quantity breakdown. The approved, revised contract amount with this change order will be **\$61,346,444.00**.

Please call myself, or Ryan Rathfon, at 859-223-8000 if you have any questions or need additional information.

Sincerely,

Herbert R. Lemaster, P.E.
Herb.lemaster@tetrattech.com

c: Ryan Rathfon, Tt



INCORPORATED IN THE STATE OF KENTUCKY
700 W. MAIN ST., SUITE 100
LEXINGTON, KY 40502-1000

September 30, 2016

Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503
Attn: Herb Lemaster, PE

Ref: West Hickman Wet Weather Storage
Change Order Proposal # 1
Credit for 8" and 48" pipe changes

Dear Mr. Lemaster,

We have prepared the following credit proposal to raise the 8" foundation drain at the South tank and the 48" lines at the Headworks per the response to RFI's 6 and 7.

Raise 8" drain line at South Tank	\$7,605.00
Raise 48" gravity sewer lines at Headworks	<u>17,745.00</u>
Total Credit	\$25,350.00

If this proposal is acceptable, please include it in your next change order.

Sincerely,

Paul Lawrence

cc: Darryl Wells
Tim Courtney
COP File

PL lj



Handwritten signature of Darryl Wells

JUDY Construction Co.

GENERAL CONTRACTORS

P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (859) 234-8900 Fax (859) 234-3480
www.judyconstructionco.com

January 6, 2017

Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503
Attn: Herb Lemaster, PE

Ref: West Hickman Wet Weather Storage
Change Order Proposal #2
Ref: Generator Controls

Dear Mr. Lemaster,

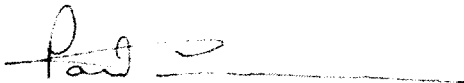
We have prepared the following proposal to provide the generator controls and the utility transfer controls in a NEMA 1 switchgear line-up separate from the generator breaker switch. This includes all required conduit and wire changes from TEM Electric.

Separate Control Line-up	\$26,112.00
Conduit, Wire, Labor, Etc.	\$21,260.00
Concrete Equipment Pad	\$ 960.00
Overhead & Profit	\$ 7,250.00
Bond	<u>\$ 558.00</u>
Total	\$56,140.00

Please add 21 calendar days to the contract time for this work.

If this proposal is acceptable, please notify us and incorporate it into a future change order.

Sincerely,



Paul Lawrence

cc: Darryl Wells
Tim Courtney
COP File



JUDY

Construction Co.
GENERAL CONTRACTORS

P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (859) 234-6900 Fax (859) 234-3480
www.judyconstructionco.com

January 24, 2017

Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503
Attn: Herb Lemaster, PE

Ref: West Hickman Wet Weather Storage
Change Order Proposal #3
Ref: Anti-cavitation devices

Dear Mr. Lemaster,

We have prepared the following proposal to provide anti-cavitation internals on 4 each flow control valves.

Anti-cavitation internals	\$ 7,760.00
Sales tax	\$ 466.00
Overhead & Profit	\$ 1,234.00
Bond	\$ 95.00
Total	\$ 9,555.00

If this proposal is acceptable, please notify us and incorporate it into a future change order.

Sincerely,



Tim Courtney

cc: Darryl Wells
Paul Lawrence
COP File

TC



Celebrating 40 Years of Business



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www.judyconstructionco.com

February 17, 2017

Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503
Attn: Herb Lemaster, PE

Ref: West Hickman Wet Weather Storage
Change Order Proposal #4
Ref: Existing Tank Drain by BPR Structure

Dear Mr. Lemaster,

We have prepared the following proposal to install new 10" pipe and fittings to replace the existing manhole on the tank drain line near the BPR Structure.

Labor	\$720.00
Material	1,581.00
Equipment	749.00
Overhead & Profit	<u>492.00</u>
Total	\$3,542.00

If this proposal is acceptable, please notify us and we will bill it to the Miscellaneous Site Improvements Allowance.

Sincerely,


Paul Lawrence

cc: Tim Courtney
Darryl Wells
COP File

PL/lj





P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (859) 234-6900 Fax (859) 234-3480
www.judyconstructionco.com

February 21, 2017

Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503
Attn: Herb Lemaster, PE

Ref: West Hickman Wet Weather Storage
Change Order Proposal #5
Ref: Grit Equipment Electrical Changes

Dear Mr. Lemaster,

We have prepared the following proposal to make the electrical changes necessary to accommodate the increased size of the control panel and increase pump horsepower as outlined in the electrical comments on the Grit Equipment submittal.

Electrical changes as outlined in the grit submittal review comments \$6,125.00

If this proposal is acceptable, please include it in your next change order.

Sincerely,

Paul Lawrence

cc: Tim Courtney
Darryl Wells
COP File

PL/lj



Submittal Stamp Page
Tt Project No. 200-11681-15002

Project: West Hickman WWTP Lexington-Fayette Urban County Government	Contractor: Judy Construction Co., 103 S. Church St. Cynthiana, KY 41031
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Copies	Submittal Number	Submittal Description
1	SD051	Grit Equipment

Contractor Certification Statement

By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with the contract drawings, specifications, other applicable approved shop drawings and all contract requirements.

<u>Paul Lawrence</u> Signature	<u>12/15/16</u> Date
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Contractor Stamp	Tetra Tech Engineering Stamp										
<p>Specification Section <u>11322</u></p> <p>Shop Drawing # <u>SD-051</u></p> <p>JUDY CONSTRUCTION COMPANY</p> <p>By: <u>PL</u> Date: <u>12-15/16</u></p> <table style="margin-left: 20px"><tr><td style="border: 1px solid black; width: 30px; height: 15px;"></td><td>Reviewed</td></tr><tr><td style="border: 1px solid black; width: 30px; height: 15px;"></td><td>Reviewed As Noted</td></tr></table>		Reviewed		Reviewed As Noted	<div style="text-align: center;">SHOP DRAWING REVIEW</div> <table style="width: 100%; border: 1px solid black;"><tr><td style="width: 50%; border: 1px solid black; padding: 2px;"><input type="checkbox"/> APPROVED FOR SHOP</td><td style="width: 50%; border: 1px solid black; padding: 2px;"><input type="checkbox"/> APPROVED FOR CONSTRUCTION</td></tr><tr><td style="border: 1px solid black; padding: 2px;"><input checked="" type="checkbox"/> APPROVED FOR CONSTRUCTION</td><td style="border: 1px solid black; padding: 2px;"><input type="checkbox"/> APPROVED FOR CONSTRUCTION</td></tr><tr><td colspan="2" style="border: 1px solid black; padding: 2px;">REVISIONS: 1</td></tr></table> <p><small>I hereby certify that the above information is true and correct and that the shop drawing is in accordance with the contract documents and all applicable laws and regulations. I am not responsible for any errors or omissions in the shop drawing or for any consequences resulting therefrom. My responsibility is limited to the information provided to me and the work I have performed. I do not warrant the accuracy or completeness of the information provided to me. I am not responsible for any errors or omissions in the shop drawing or for any consequences resulting therefrom. My responsibility is limited to the information provided to me and the work I have performed. I do not warrant the accuracy or completeness of the information provided to me.</small></p> <p align="center">TETRA TECH, INC.</p> <p align="center">RJK, DAS 1/24/2017</p>	<input type="checkbox"/> APPROVED FOR SHOP	<input type="checkbox"/> APPROVED FOR CONSTRUCTION	<input checked="" type="checkbox"/> APPROVED FOR CONSTRUCTION	<input type="checkbox"/> APPROVED FOR CONSTRUCTION	REVISIONS: 1	
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REVISIONS: 1											

Comments:

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JUDY Construction Co.

GENERAL CONTRACTORS

P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (859) 234-6900 Fax (859) 234-3480
www.judyconstructionco.com

March 27, 2017

Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503
Attn: Herb Lemaster, PE

Ref: West Hickman Wet Weather Storage
Change Order Proposal # 7
Credit for the Elimination of Odor Control VFD's

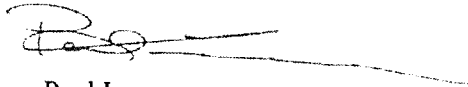
Dear Mr. Lemaster,

We have prepared the following credit proposal to delete the VFD's for the Odor Control Equipment from the Motor Control Center and replace it with a 200Amp Feeder Bucket. We are also deleting the LOS switches and control wiring to each of the Odor Control Fans.

Total Credit: \$10,568.00

If this proposal is acceptable, please include it in your next change order.

Sincerely,



Paul Lawrence

cc: Ben Williams
Darryl Wells
Tim Courtney
COP File

PL/lj



JUDY CONSTRUCTION COMPANY

P. O. Box 457
 Cynthiana, KY 41031
 Telephone: (859) 234-6900
 Fax: (859) 234-3480
 "An Equal Opportunity Employer"

LETTER OF TRANSMITTAL

TO: Tetra Tech, Inc.
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503

Date:	05/16/17	Job No.:	201609
Attention:	Vernon Azevedo		
Job Name:	West Hickman WWTP		

We are sending you X attached under separate cover
 via the following items:

- | | | |
|--------------------------|---------------------------|--------------------------|
| <u> </u> Plans | <u> </u> Shop Drawings | <u> </u> Purchase Order |
| <u> </u> Specifications | <u> </u> Samples | <u> </u> Copy of Letter |
| <u> </u> Tracings | <u> </u> Catalog Cuts | <u> </u> Other |
| <u> </u> Prints | <u> X </u> Change Order | |

COPIES	DATE	NO.	DESCRIPTION
1	05/16/17	1	Change Order No. 1 Signed

THESE ARE TRANSMITTED as checked below:

<u> </u> For approval	<u> </u> Approved as submitted	<u> </u> Submit <u> </u> copies for distribution
<u> X </u> For your use	<u> </u> Approved as noted	<u> </u> Resubmit <u> </u> copies for approval
<u> </u> As requested	<u> </u> Returned for corrections	<u> </u> Return <u> </u> corrected prints
<u> </u> For review and comment		

REMARKS

COPY TO File SIGNED Paul Lawrence/mcc
 Paul Lawrence, Project Manager

If enclosures are not as noted, kindly notify us at once.