

Project Change Order No. 2 & FINAL

Project: SRF/ARRA Raw Water Harvesting Project	Contract: General for Entire Project
Owner: City of Crossville	Owners Contract No.:
Contractor: W. L. Hailey & Company, Inc.	Engineer's Project No.: 7035
Date of Issuance: Monday, June 04, 2012	Effective Date: Monday, June 04, 2012

You are directed to make the following changes in the Contract Documents:

Description: **Adjust quantities to reflect actual installed quantities; perform work as required by additions to contract shown below; and remove work from contract as required by deductions shown below. Delete any contract requirements related to warranty on property currently owned by Sam Pugh.**

ITEM #	DESCRIPTION	UNIT	QUANTITIES		OVER + UNDER -	CONTRACT PRICE	ITEM TOTAL ADJ.
			ORIG.	PROP.			
01011-001	Revised Valve Pit Piping in Intake Pump Station from 36" to 30" (WCD #4)	LS	0	1	1	(\$3,245.00)	(\$3,245.00)
01011-001	Modify window sizes, delete 1 window	LS	0	1	1	\$5,000.00	\$5,000.00
01011-001	Add Bathroom facilities to pump station building	LS	0	1	1	\$13,183.00	\$13,183.00
01011-001	Building Electrical Changes to separate light circuits and add additional flood light and outlet in pipe gallery	LS	0	1	1	\$3,000.00	\$3,000.00
01011-001	Deletion of one 30" diameter intake line (WCD #13)	LS	0	1	1	(\$100,584.50)	(\$100,584.50)
01011-001	Add Shutters & Door Pediment to the Pump Station Bldg Exterior	LS	0	1	1	\$2,500.00	\$2,500.00
01011-001	Delete 4' x 4' hatch between pumps	LS	0	1	1	(\$1,300.00)	(\$1,300.00)
01011-001	Add Concrete Pads at Entry Gate Posts	LS	0	1	1	\$2,154.00	\$2,154.00
01356-003	Baled Hay or Straw Erosion Checks for Pipeline Work	Bale	50	58	8	\$8.00	\$64.00
01356-004	Temporary Silt Fences for Erosion Control for Pipeline Work	LF	2500	1073	-1427	\$1.50	(\$2,140.50)
01356-005	Enhanced Silt Fences for Erosion Control for Pipeline Work	LF	500	1862	1362	\$5.00	\$6,810.00
01356-006	Rock Check Dams for Erosion Control for Pipeline Work	TON	600	1044	444	\$30.00	\$13,320.00
01356-008	Diversion Dikes, Drainage Swales, and Temporary Berms	LF	300	0	-300	\$3.00	(\$900.00)
01356-009	Temporary Sediment Filter Bags for Pipeline Work	EA	3	0	-3	\$1,000.00	(\$3,000.00)
01356-010	Temporary Sediment Trap Structures	EA	1	0	-1	\$300.00	(\$300.00)
02222-001	Undercutting and Crushed Stone Backfill	TON	1000	0	-1000	\$10.00	(\$10,000.00)
02222-002	Crushed Stone for Backfill	TON	9800	10656	856	\$10.00	\$8,560.00
02222-003	Stream or Wetland Crossing	EA	5	7	2	\$5,000.00	\$10,000.00
02222-004	TDOT Grade 'D' Hot Mix Asphalt Pavement	TON	2280	502	-1778	\$82.00	(\$145,796.00)
02222-005	Directional Drilling for 36" HDPE Raw Water Main	LF	300	0	-300	\$500.00	(\$150,000.00)
02511-001	20" DIP PR250 Raw Water Main	HF	900	0	-900	\$150.00	(\$135,000.00)

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02511-002C	30" PR200 DIP Raw Water Main Additional Fittings & Installation Required	HF	14600	15638	1038	\$130.00	\$134,940.00
02511-002C	by Permit Delays	LS	0	1	1	\$123,861.00	\$123,861.00
02511-002C	30" PR200 DIP Raw Water Main - Delete Polywrapping Requirement	LS	1	0	-1	\$26,070.00	(\$26,070.00)
02511-003	Add 100' 48" HDPE Drain Pipe to Raw Water Transmission Main Outfall Structure	LS	0	1	1	\$10,709.00	\$10,709.00
02511-005	Raw Water Main Blow-off Assembly	EA	5	0	-5	\$7,500.00	(\$37,500.00)
13802-001	Telemetry Control System Allowance	LS	1	0	-1	\$105,000.00	(\$105,000.00)
13802-001	Telemetry Control System Allowance	LS	0	1	1	\$90,256.48	\$90,256.48
TOTAL INCREASE/DECREASE IN CONTRACT:							(\$296,478.52)

Reason for Change Order:

To reflect final as-built quantities on unit price items in construction contract. To reflect modifications to intake system, building, and outfall as requested by Owner.

Attachments:

- Value Engineering Proposal by W.L. Hailey of February 22, 2010
- Request for Proposal No. 14 of June 22, 2011
- Telemetry Allowance to Date Revision 1 of June 15, 2011
- Email on Pressure Transducer for Telemetry of May 15, 2012
- Request for Proposal No. 12 of May 2, 2011
- Costs for Permitting Delays on Crossville Raw Water Intake of April 11, 2011
- Request for Proposal No. 11 of March 2, 2011
- Request for Proposal No. 10 of March 2, 2011
- Request for Proposal No. 8 of November 22, 2010
- Request for Proposal No. 3 dated April 1, 2010

CHANGE IN CONTRACT PRICE:		CHANGE IN CONTRACT TIME:	
Original Contract:	\$5,118,000.00		Substantial Completion
Net Change from Previous Change Orders:			Ready for Final Payment
No. <u>1</u> to No. <u>1</u>	(\$96,068.00)	Original Contract Time:	210
Contract Price prior to this Change Order:	\$5,021,932.00	Net Change from Previous Change Orders	434
Net Change of this Change Order:	(\$296,478.52)	Contract Time Prior to this Change Order	644
Contract Price with all approved Change Orders:	\$4,725,453.48	Net Change of this Change Order	0
		Contract Time with all Change Orders	684

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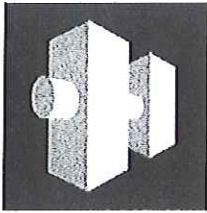
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			<u>ORIG.</u>	<u>PROP.</u>	<u>UNDER -</u>	<u>PRICE</u>	<u>TOTAL ADJ.</u>

<p>RECOMMENDED:</p> <p>By: _____ Mr. Scott J. Christian, P.E. Environmental & Civil Engineering Services</p> <p>Date: _____</p>	<p>APPROVED:</p> <p>By: _____ Owner</p> <p>Date: _____</p>	<p>ACCEPTED:</p> <p>By: _____ Contractor</p> <p>Date: _____</p>
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W.L. HAILEY & COMPANY, INC.

BUILDING TRUST SINCE 1925

February 22, 2010

To: **Scott J. Christian, P.E.**
Environmental & Civil Engineering Services
702 Old Jamestown Highway
Crossville, TN 38555
P (931) 484-9321
F (931) 484-9322
E schristian@eceservices.com

Re: **City of Crossville**
SRF/ARRA Raw Water Harvesting Project
Project # 7035
Crossville, Tennessee

WLH Job No. 1004

Subject: **Value Engineering Proposal**

Dear Scott:

As you aware, we have been assembling a value change engineering package for the above referenced project. It is our firm belief that the following items, if accepted, will provide the Owner with reduced costs and will enhance the end product. We also believe these proposed changes can be implemented with little additional design work by ECE. The following is a breakdown of our ideas with a brief description of each item:

1. Add Valve Pit Floor Openings - Add \$6,166

To facilitate the installation of and to provide access for maintenance to the 24" Butterfly Valves, Check Valves and Pressure Relief Valve, we propose to install two H-20 rated 4' x 4' Double Leaf Bilco Access Doors (see attached). We have included money for additional reinforcement around the openings (to be designed by ECE).

2. Elimination of Flexible Expansion Joints - Deduct \$90,000

Eliminate all flexible expansion joints required for the project.

3. Use an Alternate Fencing System - Deduct \$27,661

Instead of the 6' Montage II Classic Heavy Industrial Fence, we proposed to supply and install approximately 613 LF of 6' Montage Plus Fence with 3/4" pickets instead lieu of the specified 1" pickets. The proposed fence will still have the same 3-rail system but will utilize pressed ends on the spears instead of triad finials. The fence will still include a 16' double gate (drive-through) and 6' personnel gate (walk-through), an Apollo Model 1650 ETL solar gate operator and 1 solar panel. This fencing system is displayed at www.AmeristarFence.com

Continued on Page 2

W.L. Hailey & Co., Inc.
P.O. Box 40646
2971 Kraft Drive
Nashville, TN 37204

Randy Pridemore, Project Manager
Phone: (615) 255-3161, Ext. 180
Fax: (615) 254-3955
E-Mail: rpridemore@wlhailey.com

4. Add Roof Openings - Add \$7,927

To facilitate the installation of the vertical turbine pumps and future removal/re-installation, we propose to install two 4' x 5' Bilco Single Leaf Roof Scuttles. Roof scuttles will be centered above each pump (see attached). This will necessitate relocating the northern pump towards the other pump by approximately 1-2 feet to avoid the centerline of the roof trusses. This price includes roof truss modification, two roof scuttles, plywood shafts between the drop ceiling and scuttles, and the painting of said shafts.

5. Deletion of One 30" diameter Intake Line - Deduct \$102,236

This deduct is for deleting the eastern intake line and associated 30" BFV and wall sleeve. The remaining intake line will leave the pump station at the same location but will run perpendicular to the face of the concrete wall, as we no longer will have the flexible expansion joint to make up the angle shown on the plans. This proposed single intake line will attach to the wall piece via a 30" flange-by-restrained joint spool piece. The intake line will extend approximately 13 restrained joints from that spool piece and attach to a flanged 30" tee with another restrained joint- by-flange spool piece. We will delete the pipe supports as shown, and install a new support near the tee (see proposed drawings).

6. 30" Pipe Deduct at Valve Pit - Deduct \$8,218

We did not account in our bid for the piping in the valve pit to decrease from 36" to 30" within the appropriate alternate bid item. This deduct is for a reduction in tee size, reducer, BFV, Dresser coupling, spool piece, wall sleeve, and flange accessory kits.

7. Deletion of Polywrapping of Ductile Iron Pipe - Deduct \$26,070

We are not aware of any potentially corrosive areas where the proposed pipeline will encounter aggressive soils, such as coal, cinders, mine wastes or landfill areas. We propose to eliminate all polywrap required for the ductile iron pipe from this project.

8. Item No. 02222-004 Asphalt Paving - Deduct \$186,960

This deduct will eliminate all paving and pavement markings in this contract that is associated with the open cut pipe work. The paving at the pump station site will remain a part of the lump sum Item No. 01011-001.

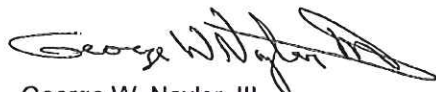
9. Item No. 02222-005 Wetlands - Deduct Approximately \$150,000

This is an approximate deduct for changing the wetlands crossing from trenchless to open cut. We will price more accurately once stipulations of the agreement are presented.

After careful examination of the potential cost savings that would result from implementation of the above referenced items, we have determined a total cost savings of approximately \$577,052.00. We look forward to a favorable review of our proposal. If you should have any questions, please do not hesitate to contact me at your earliest convenience

Sincerely,

W.L. Hailey & Company, Inc.



George W. Naylor, III
Operations Manager
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