



Memo

TO: Mayor Manier and City Council
FROM: Kevin Schone, Public Works Manager
DATE: January 22, 2019
SUBJECT: Emergency Repairs – WTP#1

On December 10, 2018 water treatment plant personnel were performing routine cleaning of the softener vessels when water entered a conduit and damaged several components of the softener control cabinet. Britton Electronic was contacted for assistance in making repairs and upon investigation found a conduit that was cross threaded and allowed water to enter the control cabinet. This conduit as well as others at this control cabinet were sealed at that time.

Britton Electronics began making repairs on December 10, 2018. At that time staff asked Britton for a ballpark figure of what repairs would be and were told around \$9,000. The repairs proved to be difficult and repairs were requiring additional components and overtime so staff asked again where we were at on the cost of repairs and were told around \$18,000. Major repairs were completed on December 21, 2018 with some minor issues still needing resolved.

On Monday January 7, 2019 the invoice for the repairs to the softener panel were received in the amount of \$33,028.81. Britton was contacted for an explanation of why the invoiced amount was so much higher than estimated and the need to keep staff informed of the increasing cost when repairs such as these are needed. Components needed for the repairs totaled \$18,643.83 and labor cost were \$14,384.98. Labor cost include 91.5 hours of regular hours and 21 hours of overtime to complete repairs.

Staff agrees that the repairs and components were needed and recommends payment to Britton Electronics and Automation in the amount of \$33,028.81.

This matter has been placed on the City Council consent agenda of Tuesday, January 22, 2019 for review and ratification.



BRITTON
ELECTRONICS & AUTOMATION, INC.

PO Box 872
Pekin, IL 61555-0872

Phone # 309-353-5376
Fax # 309-353-1372

IDHR#: 116050-00
www.go-bea.com

Invoice

Invoice Date 12/31/2018
Invoice No. 2187824

BILL TO:

City of Washington
Water Treatment Dept
301 Walnut St.
Washington, Illinois 61571

* * SITE LOCATION * *

City of Washington
Water Treatment Plant #2
Washington, IL 61571

P.O. Number	Terms	Rep	Ship	Via	F.O.B.	Project Name:
	Net 30	RCB	12/28/2018	On-Site-Ser...	PEKIN, IL	INF-121018

Qty	Item Code	Description	Price Each	Amount
		WATER INFILTRATED CONTROL CABINET CAUSING DAMAGE		
1	GEN-ITEM	AB 1769-ECR RIGHT END CAP TERMINATOR	45.67	45.67T
1	GEN-ITEM	AB 1769-L30ER COMPACTLOGIX 1 MB MEMORY CONTROLLER	2,336.88	2,336.88T
1	GEN-ITEM	AB 1769-IF4 INPUT CARD	585.32	585.32T
1	GEN-ITEM	AB 1769-OW16 16 PT AC/DC RELAY OUTPUT	484.44	484.44T
1	GEN-ITEM	AB 1769-PA2 COMPACTLOGIX POWER SUPPLY	332.60	332.60T
3	GEN-ITEM	AB 1794-AENT ETHERNET ADAPTER W 24V DC POWER SUPPLY	877.52	2,632.56T
2	GEN-ITEM	AB 1783-US5T STRATIX 2000 5 PORT UNMANAGED SWITCH	157.88	315.76T
2	GEN-ITEM	AB800T-J2A SWITCH, SELECTOR 600V AC MAX 10 AMP MAX	100.79	201.58T
1	GEN-ITEM	AB 800T-J2B SWITCH,SELECTOR 600V AC MAX 10 AMP MAX	146.43	146.43T
1	GEN-ITEM	AB1794-IA16 85-132V AC Input Module	477.22	477.22T
2	GEN-ITEM	AB 1794-OA16 85-132V AC Output Module	540.54	1,081.08T
1	GEN-ITEM	PROS MV169-MCM MODBUS CARD	3,842.65	3,842.65T
4	GEN-ITEM	AB 1794-AENT ETHERNET ADAPTER W/24V DC POWER SUPPLY, TWIST PR	874.52	3,498.08T
1	GEN-ITEM	IDEA 31-388 CLEARGLIDE	14.326	14.33T
1	GEN-ITEM	Cat 5E Riser style Ethernet cable	127.63	127.63T
25	GEN-ITEM	Cat5E Ideal ends	1,248	31.20T
1	GEN-ITEM	AB 1783-US8T STRATIX 2000 UNMANAGED SWITCH	209.66	209.66T
1	GEN-ITEM	PROS MV169-DFCM DF1 Master/Slave Communication Module	2,280.74	2,280.74T
		Subtotal on >		18,643.83

Billing Questions: A/R Dept. (309) 353-5376

Invoice is Due by: 1/30/2019

Subtotal

IL Sales Tax 8.5%...

Payments/Credits

A late fee of 1.5% per month will be charged if paid after 1/30/2019

INVOICE TOTAL

Please detach, retain top portion for your records and return bottom portion with your remittance.

Please Remit Payment To:	Customer No.	Invoice No.	Due Date	Payments/Credits	Invoice Total	Amount Remit
BEA OF ILLINOIS P.O. Box 872 Pekin, IL 61555-0872	WASH07-05	2187824	1/30/2019			
Thank You for Your Business.						

Note: Tax Exempt E9993-0811-07

JOB NAME: INF-121018
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Qty	Item Code	Description	Price Each	Amount
1	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/10/18 Tech: Chad Britton Description: Troubleshoot water infiltration of remote cabinet.	116.95	116.95
6.5	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/11/18 Tech: George Hill Description: Installed HOA switches on softener cabinet for solenoid control. Verified operators could run plant before leaving.	116.95	760.18
4	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/12/18 Tech: Kyle Garrett Description: Work on the conversion of Washington WTP P 2 system from SLC to compact logic.	116.95	467.80
8	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/13/18 Tech: Chad Britton Description: Programming conversion SLC500 to Compact Logix	116.95	935.60

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8	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/14/18 Tech: Chad Britton Description: Installed new Flex I/O modules, completed terminations. Traced out I/O wiring along inputs and outputs. Disconnected solenoid panels for softeners.	116.95	935.60
9	PW-OT	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] AFTER HRS or SATURDAY SERVICE CALL Service Date: 12/14/18 Tech: Chad Britton	175.43	1,578.87
8	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/14/18 Tech: George Hill Description: Installed new Flex I/O modules, completed terminations. Traced out I/O wiring along inputs and outputs. Disconnected solenoid panels for softeners.	116.95	935.60
9	PW-OT	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] AFTER HRS or SATURDAY SERVICE CALL Service Date: 12/14/18 Tech: George Hill	175.43	1,578.87

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8	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/17/18 Tech: Chad Britton Description: Removed old I/O cable. Installed Cat5E for new communicators. Installed new ethernet modules. Test I/O.	116.95	935.60
1.5	PW-OT	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] AFTER HRS or SATURDAY SERVICE CALL Service Date: 12/17/18 Tech: Chad Britton	175.43	263.15
8	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/17/18 Tech: George Hill Description: Removed old I/O cable. Installed Cat5E for new communicators. Installed new ethernet modules. Test I/O.	116.95	935.60
1.5	PW-OT	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] AFTER HRS or SATURDAY SERVICE CALL Service Date: 12/17/18 Tech: George Hill	175.43	263.15

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7	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/18/18 Tech: Chad Britton Description: Conversion of WTP#2 PLC and Remote I/O onsite Test and bring online Filter 1-4 , 5, and 6 panels. Test Softner 4 controls with no water running though to make sure IO is working correctly. Issues with water hammer, operators need to fix pipe on brine.	116.95	818.65
7	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/18/18 Tech: Kyle Garrett Description: Conversion of WTP#2 PLC and Remote I/O onsite Test and bring online Filter 1-4 , 5, and 6 panels. Test Softner 4 controls with no water running though to make sure IO is working correctly. Issues with water hammer, operators need to fix pipe on brine.	116.95	818.65
7.5	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/19/18 Tech: Chad Britton Description: Conversion of WTP#2 PLC and Remote I/O onsite	116.95	877.13

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7.5	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/19/18 Tech: Kyle Garrett Description: Conversion of WTP#2 PLC and Remote I/O onsite Pipe glue cured. Tested again. Working much better. Adjusted air control on brine valve to help reduce water hammer. Tested softner 1 controls working.	116.95	877.13
6	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/20/18 Tech: Chad Britton Description: Removed last of controls left on SLC PLC to new PLC. Had issues with speed control and commands to Legion Rd wells. Resolved.	116.95	701.70
5	PW-01	LABOR RATE PER IL Prevailing Wage Act [820 ILCS 130/11a] Service Date: 12/21/18 Tech: Chad Britton Description: Bringing online stats and remote components from Plant 1 online. Issues with floating point data to Plant 1 still need resolved.	116.95	584.75

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