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CITY OF KNOXVILLE

Quotation

August 19, 2026

To:	Ty Cruse	From:	George Hill
Company:	Bock Inc	Phone:	309-202-0470
Phone:	309-854-3520	Office:	309-353-5376
Job:	Knoxville RAS Upgrade	Email:	George@go-bea.com

Scope of Work:

BEA will **design, construct, supply, install, program, and commission** a new PLC control system and VFD control system to replace the existing RAS control equipment. This includes a new PLC control enclosure with operator interface and a new VFD enclosure.

VFD Cabinet Installation

BEA will perform the following work associated with the new VFD control enclosure:

- Provide demolition and removal of all existing VFD equipment and the PLC equipment currently located within the existing VFD enclosure
- Design, construct, and supply one (1) new enclosure for VFD equipment
- Supply and install a new fused disconnect with door-mounted handle on the front of the enclosure
- Supply and install a control transformer inside the VFD cabinet, tapped from the line side of one VFD disconnect, with independent OCPD protection so PLC control power remains energized when VFD equipment is shut down for maintenance
- Supply and install (2) seal fail and over-temperature protection modules
- Supply and install Ethernet communication modules for VFD control and integration
- Complete all required power and control terminations
- Provide all programming, configuration, testing, and start-up/commissioning

PLC Control Panel Installation

BEA will perform the following work associated with the PLC control enclosure:

- Design, construct, and supply one (1) new control enclosure containing an **Allen-Bradley Micro 850 Series PLC** sized to accommodate all required I/O
- Provide and install **HOA (Hand-Off-Auto) selector switches** for pump control
- Provide and install **momentary pushbutton** for system reset
- Provide and install **Allen-Bradley 7" PanelView HMI touchscreen interface**
- Provide and install **Trio power supply**
- Provide **battery backup and surge suppression protection**
- Provide and install **industrial Ethernet switch**
- Provide all necessary **internal power distribution and control power supplies**
- Complete all required **field terminations, PLC programming, HMI development, testing, and system start-up/commissioning**

CAD Drawings, As-Built, and Documentation

- BEA will develop and provide AutoCAD electrical drawings for the PLC control panel and VFD control panel. Drawings will include:
 - Power distribution schematics
 - Control schematics
 - Panel layout and device arrangement
 - Upon completion of installation and commissioning, BEA will update all project drawings to reflect as-installed field conditions. As-built drawings will incorporate any field changes made during installation or start-up.
 - PLC and HMI program backups
 - All documentation will be provided in electronic format (PDF) and in physical format.

General Clarifications:

- BEA will coordinate installation and start-up with site personnel to minimize operational downtime, bypass pumping may need coordinated during downtime and is the responsibility of the municipality.
- BEA assumes existing field wiring to the wet well and associated field devices is **operational and suitable for reuse**.
- Any unforeseen conditions discovered during installation will be communicated to the owner prior to corrective action and will be outside of the scope of this quotation.

General Exclusions:

- BEA is not responsible for pre-existing damaged wiring, conduits, or equipment. If deficiencies are identified, BEA will notify the site and can provide corrective work upon approval at additional cost.
- **No work is included at the wet well** as part of this project. Existing wiring is assumed functional; however, due to age, future replacement of conduit and wiring is recommended. This work is **not included** but can be quoted separately upon request.
- BEA is not responsible for failures or performance issues associated with **existing field infrastructure or legacy installations** outside the scope of this project

Pricing and Material Disclaimer:

* PRICING DISCLAIMER ***

All quoted pricing is budgetary and subject to change without notice due to market volatility, supply chain disruptions, tariffs, taxes, and regulatory actions. This clause supersedes any other validity period stated in this quotation and takes precedence over conflicting terms.

Quotation Price Expected Cost:	\$ 70,350.00
Quotation Price Not to Exceed:	\$ 73,500.00

This quotation respectfully submitted by:

George Hill

PO Box 872

Pekin, Illinois 61554

Approval: _____

Date: _____

Additional Terms & Attachments

Please note that this quote is accompanied by the following documents, which are an integral part of this proposal:

- **Exclusions and Disclaimers:** The detailed list of exclusions, disclaimers, and conditions applicable to this project can be found in the attached "Exclusions and Disclaimers" page. By accepting this quote, the customer acknowledges and agrees to all terms and conditions stated therein.
- **Warranty Terms:** A comprehensive description of the warranty coverage, including duration and conditions, is included in the attached "Warranty" page.

Acceptance of this quotation confirms that the customer has read and agrees to the terms and conditions specified in the main document as well as those detailed in the attached pages.

Exclusions and Disclaimers

1. Quote Validity

This quotation is valid for a period of 30 days from the date of issuance. All prices, terms, and conditions are based on the project scope as defined in this document and are subject to change after the 30-day validity period. Any adjustments, changes in scope, or extended periods will necessitate a revised quotation, which will supersede the original. Customers are encouraged to confirm the acceptance of this quote within the validity window to secure the pricing and proposed project timeline.

2. Scope of Work Exclusions

The work detailed in this proposal pertains only to the equipment, systems, and services specifically listed within the defined scope of work. This quotation does not include:

- **Repair, Replacement, or Modification of Existing Equipment:** Any existing electrical or control components, systems, or machinery that are found to be damaged, faulty, or unsuitable for integration during installation are not covered. Such issues may be brought to the customer's attention with the option to quote separately for remedial work.
- **Additional Permits or Approvals:** Permits, local codes compliance, or additional regulatory requirements beyond those expressly noted in this quote are excluded. Compliance with such requirements will need to be addressed separately and may require additional costs.
- **Site Preparation:** It is assumed that all work areas will be cleared and prepared by the customer prior to the start of our work. Any site preparation, including the removal of existing structures, debris, or hazardous materials, will be the responsibility of the customer unless specifically stated.

3. Assumption of Project Continuity

The quoted pricing assumes a seamless project flow without any delays or interruptions. Should any interruptions or delays arise due to circumstances beyond the control of Britton Electronics & Automation Inc.—including but not limited to:

- Adverse weather conditions, natural disasters, or force majeure events
- Labor disputes, site access limitations, or customer-related scheduling changes
- Third-party conflicts, disagreements, or regulatory controversies

All additional costs or impacts on the schedule resulting from such interruptions will be borne by the customer. Adjustments to the project timeline and pricing will be communicated promptly, with changes documented in a formal project change order.

4. Invoicing and Billing Terms

Invoicing for the project will follow a progressive payment structure. Materials will be invoiced upon ordering from vendors. Periodic invoices will reflect the work completed to date and will be payable in accordance with the terms outlined below.

For jobs with milestone-based completion, invoices will align with either predefined project milestones or percentage completions, as detailed in the project documentation.

5. Net Payment Terms

Unless otherwise agreed upon in writing, all invoices are due within Net 30 days from the date of issue. Payment can be made via electronic transfer, check, or other agreed-upon methods. If full payment is not received by the due date:

- A late payment fee may be applied, typically calculated as a percentage of the outstanding amount.
- Interest may be charged on overdue amounts at a rate of 1.5% per month or as permitted by law.
- In the event of non-payment or significant delay, Britton Electronics & Automation Inc. reserves the right to suspend ongoing work until outstanding balances are settled.

6. Labor and Travel Expenses

The pricing within this quotation is inclusive of all labor and travel time associated with the defined scope of work. Any additional labor or travel time incurred due to customer-driven changes, site conditions, or unforeseen requirements will be evaluated separately and may result in additional charges. Such expenses will be documented and communicated to the customer before being billed.

7. Sales Tax and Shipping

The prices listed in this quotation are exclusive of any applicable sales taxes, duties, or shipping fees. If applicable:

- Sales tax will be calculated based on current local tax rates and included in the final billing.
- Shipping fees for materials, equipment, and any other necessary items will be added to the total cost. Shipping costs will be itemized in the invoice, and any special shipping requests must be discussed and agreed upon in advance.

8. Warranty Terms and Conditions

All products and services provided under this quote are covered by the warranty terms detailed on the final page of this document. Warranty coverage includes:

- **Components and Equipment:** All new equipment supplied is covered against manufacturing defects for a period of 12 months from the date of commissioning.
- **Workmanship:** Installation and integration services are warranted to be free from defects for 12 months from the project's commissioning date. The warranty does not cover damages caused by misuse, external influences, modifications by unauthorized personnel, or environmental conditions beyond the equipment's design specifications.

Please refer to the warranty section for complete details, including claim procedures, limitations, and conditions.

By accepting and signing this quotation, the customer acknowledges and agrees to all terms, conditions, exclusions, and disclaimers set forth within this document, including those specifically detailed on this Exclusions and Disclaimers page. Acceptance of this quotation constitutes a binding agreement between the customer and Britton Electronics & Automation Inc., and signifies the customer's understanding and approval of all project scope details, terms of payment, and associated conditions.

WARRANTY OF MATERIALS AND SERVICES

This warranty applies to all service and materials quoted and/or accomplished as "time and materials".

If within one (1) year from project completion, products supplied and installed by Britton Electronics & Automation, Inc. of Pekin, Illinois fail due to a defect in material or workmanship, we will repair if possible or replace. Replacement materials will carry the remainder of the one (1) year warranty.

If within one (1) year from project completion, software programs written by Britton Electronics & Automation, Inc. of Pekin, Illinois do not perform as specified, we will adjust to meet those specifications as circumstances allow. All warranties are limited to the capacity of the materials and equipment supplied and environment which they are subjected. Equipment and programs cannot be expected to perform beyond their capacity. This warranty applies only to the original purchaser, residing in the U.S. or Canada, and is not transferable.

BRITTON ELECTRONICS & AUTOMATION, INC. OF PEKIN, ILLINOIS WILL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES TO PURCHASER, OR ANY OTHER PARTY, FOR ANY LOSS, DAMAGE, INJURY OR EXPENSE OF ANY KIND OR NATURE CAUSED DIRECTLY OR INDIRECTLY BY THE PRODUCTS OR THE FAILURE OF THE PRODUCTS TO OPERATE PROPERLY.

THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY MODIFIED TO EXIST ONLY AS CONTAINED IN THIS LIMITED WARRANTY, AND SHALL BE OF THE SAME DURATION AS THE WARRANTY PERIOD STATED ABOVE.

The warranty does not apply to: (a) damage caused by accident, abuse, in handling, dropping; (b) acts of God; (c) units which have been subject to unauthorized repair, opened, taken apart or otherwise modified; (d) units not used in accordance with directions; (e) damages exceeding the cost of the product; (f) depreciated or loss of charge time; (g) the finish on any portion of the product, such as surface scratches and/or weathering, as this is considered normal wear and tear.

No payment, partial or whole, of the original quoted amount or additional work shall be withheld for any reason relating to warranty unless mutually agreed upon in writing prior to acceptance of the original quotation. All payments shall be subject to the "TERMS AND CONDITIONS OF SALE" statement on the back of each invoice, partial or whole. Failure to comply with these "TERMS AND CONDITIONS OF SALE" will void the above stated warranty.

BRITTON ELECTRONICS & AUTOMATION, INC. OF PEKIN, ILLINOIS

