 <p>CLAYTON COUNTY <b>Water</b> AUTHORITY</p> <p>1600 Battle Creek Road Morrow, GA 30260</p>	<b>London Ct and Cristi Ct LS Improvements</b>	
	<b>ADDENDUM No. #1</b>	
	<b>Date</b>	Tuesday, March 28, 2023
	<b>Bid Number</b>	2023-GS-05
	<b>Pre-Bid Meeting</b>	Thursday, March 16, 2023 at 10:00 a.m. local time
<b>Bid Opening</b>	Thursday, April 4, 2023 at 10:00 a.m. local time	
<b>ADDENDUM MUST BE SIGNED AND INCLUDED IN YOUR BID SUBMITTAL</b>		

**SECTION 00 91 13.01**

**ADDENDUM NO. 1**


**SEE ADDENDUM PROTOCOL FOR INSTRUCTIONS**

**NOTE: REVISIONS TO PROJECT MANUAL (BOLD / STRIKETHROUGH, ETC.) TO MATCH FORMATTING EDITS IN THE ACTUAL SPEC SECTION**

**PART 1 – REVISIONS TO THE PROJECT MANUAL**

The following REVISIONS shall be incorporated into the PROJECT MANUAL for the above-referenced project:

- A. Section 00 01 10 Table of Contents
  - 1. REPLACE “SLBE Forms” with “SLBE Program – Goal”
- B. Section 00 41 00 Bid Form
  - 1. REPLACE Section 00 41 00 Bid Form in its entirety with revised Section attached to this Addendum. Revisions are highlights in red text.
- C. Section 00 43 39.01 SLBE Program - Goal
  - 1. REPLACE Section 00 43 39.01 SLBE Program – Goal in its entirety with revised Section attached to this Addendum. Revisions are highlights in red text.
- D. Section 00 43 39.02 SLBE Program - Discount
  - 1. DELETE Section 00 43 39.02 SLBE Program – Discount in its entirety.
- E. Section 01 22 15 Measurement and Payment
  - 1. REPLACE Section 01 22 15 Measurement and Payment in its entirety with revised Section attached to this Addendum. Revisions are highlights in red text.

 <p>CLAYTON COUNTY <b>Water</b> AUTHORITY</p> <p>1600 Battle Creek Road Morrow, GA 30260</p>	<b>London Ct and Cristi Ct LS Improvements</b>	
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F. Section 26 00 01 General Electrical Provisions

1. Paragraph 1.1.B.3.a, REPLACE “Complete system of conduits, cables and conductors to supply electrical energy to the new control panel and blowers” with “Complete system of conduits, cables and conductors to supply electrical energy to the new electrical panels and pump station”
2. Paragraph 1.1.B.3.b, DELETE “Blower control panel”
3. Paragraph 1.1.B.3.c, DELETE “MCC modifications”
4. Paragraph 1.3.A.4.c.1, REPLACE “MCC Breaker” with “Pump Station Control Panel”
5. Paragraph 1.3.A.4.c.2, DELETE “Blower Control Panel”

G. Section 26 00 02 Basic Materials and Methods

1. Paragraph 2.2.D.1.a, REPLACE “Blower Control Panel” with “Pump Station Control Panel”

H. Section 42 21 13 Package Centrifugal Suction Lift Station


1. REPLACE Section 42 21 13 Package Centrifugal Suction Lift Station in its entirety with revised Section attached to this Addendum. Revisions are highlights in red text.

**All other terms and conditions of the PROJECT MANUAL remain unchanged.**

**PART 2 – REVISIONS TO THE DRAWINGS**

The following REVISIONS shall be incorporated into the DRAWINGS for the above-referenced project:

- A. On Drawing Sheet C-7, ADD the following note:

 <p>CLAYTON COUNTY <b>Water</b> AUTHORITY</p> <p>1600 Battle Creek Road Morrow, GA 30260</p>	<b>London Ct and Cristi Ct LS Improvements</b>	
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2. Remove the existing generator foundation and install a new foundation in the location shown. Foundation shall be sized according to the actual dimensions of the generator being provided and have a six (6) inch reveal on all sides of the generator. Pad shall be 12 inches thick with #6 reinforcing at 9" each way, top and bottom.
  - B. On Drawing Sheet C-7, in the call out for the diesel generator, CHANGE "6" thick concrete pad" to "12" thick concrete pad".
  - C. On Drawing Sheet E-2, DELETE "Provide EDCO HSP 121 surge suppressors at both ends of all 120V control cables. Provide EDCO PC-642 surge suppressors at both ends of all signal cables."
  - D. On Drawing Sheet E-2, ADD "or equal" to the end of Note 6.
  - E. On Drawing Sheet E-2, Note 7, REPLACE "Square-D CAT #HDL36060U31X" with "Square-D CAT #HDL36060V33X, or equal"
  - F. On Drawing Sheet E-4, Note 1, DELETE "Provide EDCO HSP 121 surge suppressors at both ends of all 120V control cables. Provide EDCO PC-642 surge suppressors at both ends of all signal cables."
  - G. On Drawing Sheet E-4, ADD "or equal" to the end of Note 5.
  - H. On Drawing Sheet E-4, Note 6, REPLACE "Square-D CAT #JDL3250U31X" with "Square-D CAT #JDL36250V33X, or equal"

**All other terms and conditions of the DRAWINGS remain unchanged.**

### **PART 3 – QUESTIONS AND ANSWERS**

The following QUESTIONS and ANSWERS shall be incorporated into the PROJECT MANUAL for the above-referenced project:

- Q1: Note 1 on sheet E-4 and note 1 sheet E-2, Surge arrestors at both ends of signal and control cables? These arrestors are bulky to be at both ends of**



CLAYTON COUNTY  
**Water**  
 AUTHORITY  
 1600 Battle Creek Road  
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## London Ct and Cristi Ct LS Improvements

### ADDENDUM No. #1

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**cables and would take up a significant amount of space in a control cabinet. Please confirm this requirement.**

A1: This requirement has been deleted. See Part 2 – Revisions to the Drawings, Items C and F.

**Q2: Note 6 sheet E-4 calls out a specific Square D part number for the Main Breaker, is an equal to ok to use or is this project Square D specific.**

A2: See Part 2 – Revisions to the Drawings, Item H, above.

**Q3: Same as above with the surge arrestor, note 5 sheet E4**

A3: See Part 2 – Revisions to the Drawings, Item G, above.

**Q4: If the load center called out on sheet E-2 is not available in a 4x enclosure, will a 3r enclosure satisfy the engineer?**

A4: NEMA-3R enclosure is acceptable.

**Q5: Specs section 260001 4 b- Is it acceptable to use the approved submittals for the electrical equipment and install the correct size and qty of conduits required and as drawn to make a complete and functional system.**

A5: In reference to Section 26 00 01, Paragraph 1.3.A.4.b, Contractor shall provide all the requirements included within this section.

**Q6: Is an ARC Flash and coordination study required to be done for these projects? If so who is to perform electrical gear, supplier or is a specific party required to perform. We have used EDEC Inc for past projects where the electrical supplier is not required to perform.**

A6: Yes, an ARC Flash study is required. It is the responsibility of the Contractor to provide the ARC Flash and coordination study that is required for this work.

**Q7: 260001 2.9 F We will exclude as there are no disconnects called out on this project.**

A7: Acknowledged.

**Q8: Verify that RGS (rigid galv. steel)conduit exposed and sch 40 PVC underground with RGS painted 90's is acceptable. Stainless steel hardware and supports.**



CLAYTON COUNTY  
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## London Ct and Cristi Ct LS Improvements

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- A8: See Specification Section 26 05 33.13, paragraph 3.5.
- Q9: Will the contractor be responsible for power to the surrounding homes during power interruptions?**
- A9: The contractor will be responsible for providing temporary power to the surrounding homes, as required. See Part 1 – Revisions to the Project Manual, Items B and E.
- Q10: Cristi Ct LS: Is the 120V/240V Panelboard provided with the Gorman Rupp Package?**
- A10: No.
- Q11: Cristi Ct LS: Is there any more information on this existing generator, i.e. manufacturer, dimensions of the unit, etc?**
- A11: The existing generator at Cristi Ct LS is a Katolight, model D60FGJ4, 60 kW 3 phase power generation system.
- Q12: Cristi Ct LS: Is the Mission RTU provided by owner or electrician? If electrical provide Mission representative contact info.**
- A12: Mission RTU is to be provided by the electrician. Contact Wesley Bott of Kazmir & Associates, Inc.
- Q13: Cristi Ct LS: Can the location of the power company transformer be provided?**
- A13: See proposed new power pole location shown on Drawing Sheet C-2. Final pole location to be coordinated with power company.
- Q14: London Ct LS: Is the existing generator pad to be reused and expanded if necessary or is existing pad to be demoed & new pad provided?**
- A14: See Part 2 – Revisions to the Drawings, Item A, above.



1600 Battle Creek Road  
Morrow, GA 30260

## London Ct and Cristi Ct LS Improvements

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#### PART 4 – ATTACHMENTS

- A. Pre-Bid Meeting and Mandatory Site Visit Sign-in Sheet
- B. Section 00 41 00 Bid, revised Addendum No. 1
- C. Section 00 43 39.01 SLBE Program - Goal, revised Addendum No. 1
- D. Section 01 22 15 Measurement and Payment, revised Addendum No. 1
- E. Section 42 21 13 Package Centrifugal Suction Lift Station, revised Addendum No. 1

#### END OF SECTION

**Acknowledgment of receipt of this addendum must be signed and included in your bid submittal.**

<b>Company Name</b>	
<b>Signature</b>	
<b>Date</b>	

**SIGN-IN SHEET**  
**ES-RE-22-01 London Ct and Cristi Ct LS Improvements**  
**Pre-Bid Meeting**  
**March 16, 2023**

Please initial next to your name to indicate you were present and all of the contact information is correct.

Initials	Name	Company	Phone Number	Email Address
<u>AHW</u>	Andrew Waters	Engineering Strategies	(770) 429-0001	awaters@esi-ga.com
	John Fleck	Engineering Strategies	(770) 429-0001	jfleck@esi-ga.com
	Lauren Chamblin	CCWA	(770) 960-5250	Lauren.chamblin@ccwa.us
	Kelley Taylor	CCWA	(770) 960-5207	Kelley.taylor@ccwa.us
<u>JWW</u>	John Walter	CCWA	(770) 302 3426	John.walter@ccwa.us
	Isabel Parrilla	CCWA	(770) 960-3605	Isabel.parrilla@ccwa.us
<u>AM</u>	Alan Michon	RDT INC.	(770) 251-2667	AMICHON@RDTEINC.COM
<u>DT</u>	Doug Thomas	CCWA	404 561 8348	doug.thomas@ccwa.us
<u>LM</u>	LORIE MOORE	Sol Const	6-595 8991	estimating@solconstructionllc.com
<u>QA</u>	Denver Huey	CCWA	698-588-3664	Denver.Huey@ccwa.us
	HILDA FLORES	CCWA		HILDA.FLORES
	MARGA JONES	CCWA		MARGA.JONES
	KATHY BOBERT	CCWA		KATHY.BOBERT
<u>TS</u>	TASON TAYLOR	PARRIS & CONSTRUCTION CO.	408-974-8295	TASON@PARRIS&CONSTRUCTION.CO.
<u>BT</u>	Brent Taylor	CCWA	770-302-1772	brent.taylor@ccwa.us

**SECTION 00 41 00**

**BID FORM**

**ARTICLE 1 – BID RECIPIENT**

1.01 Bid of \_\_\_\_\_ (hereinafter “Bidder”), organized and existing under the laws of the State of \_\_\_\_\_, doing business as \_\_\_\_\_ (insert “a corporation,” “a partnership,” or “an individual” or such other business entity designation as is applicable). Submitted to the Clayton County Water Authority (hereinafter “Owner”).

**ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS AND CERTIFICATIONS**

2.01 In compliance with your Advertisement for Competitive Sealed Bid, Bidder hereby proposes to perform all Work for the **London Court and Cristi Court Lift Station Improvements** in strict accordance with the Contract Documents as enumerated in the Advertisement for Competitive Sealed Bid, within the time set forth therein, and at the prices stated below.

2.02 In submitting this bid, Bidder certifies that the Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

**Site Visit**

\_\_\_\_\_  
(insert date)

2.03 By submission of this Bid, Bidder certifies, and in the case of joint Bid each party thereto certifies as to the party’s own organization that this Bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid with any other Bidder or with any competitor. Bidder also certifies compliance with the Instructions to Bidders.

2.04 In submitting this Bid, Bidder acknowledges and accepts Contractor’s representations as more fully set forth in Section 00 52 00 Agreement.

2.05 In submitting this Bid, Bidder certifies Bidder is qualified to do business in the state where the Project is located as required by laws, rules, and regulations or, if allowed by statute, covenants to obtain such qualification prior to contract award.

2.06 In submitting this Bid, Bidder accepts all terms and conditions of the Bidding Documents.

2.07 Contract Execution: The undersigned Bidder agrees, if this Bid is accepted, to enter into an Agreement with Owner on the form included in the Bidding Documents to perform and furnish Work as specified or indicated in the Bidding Documents for the Contract Price derived from the Bid and within the Contract Times indicated in the Agreement and in accordance with the other terms and conditions of the Bidding documents.



- 2.08 Insurance: Bidder further agrees that the Bid amount(s) stated herein includes specific consideration for the insurance coverages specified in Section 00 72 00 General Conditions and Section 00 73 00 Supplementary Conditions.
- 2.09 Liquidated Damages: Bidder accepts the provisions in Section 00 52 00 Agreement as to liquidated damages.
- 2.10 Sales and Use Taxes: Bidder agrees to cooperate with Owner in accordance with the provisions in Section 00 73 00 Supplementary Conditions paragraph 7.10E.
- 2.11 Addenda: The Bidder hereby acknowledges that he has received the following Addenda to these Specifications (Bidder shall insert No. of each Addendum received) and agrees that all addenda issued are hereby made part of the Contract Documents, and the Bidder further agrees that his Bid includes all impacts resulting from said Addenda.

Addendum No.	Date Received	Addendum No.	Date Received

**ARTICLE 3 – BASIS OF BID**

Bidder will complete the Work in accordance with the Contract Documents for the amount as listed below. Total bid amount shall be shown in words and numbers. In case of discrepancy, the bid amount shown in words will govern.

**3.01 Bid Item 1 - Lump Sum Bid for London Court Lift Station Improvements**

Bidder agrees to accept as full payment for the **London Court Lift Station Improvements Lump Sum Work** proposed within the Bidding Documents, based upon the undersigned’s own estimate of quantities and costs and including taxes, overhead, and profit, the following:

LONDON CT LS LUMP SUM BID PRICE: \$ \_\_\_\_\_

**3.02 Bid Item 2 - Lump Sum Bid for Cristi Court Lift Station Improvements**

Bidder agrees to accept as full payment for the **Cristi Court Lift Station Improvements Lump Sum Work** proposed within the Bidding Documents, based upon the undersigned’s own estimate of quantities and costs and including taxes, overhead, and profit, the following:

CRISTI CT LS LUMP SUM BID PRICE: \$ \_\_\_\_\_

3.03 Bid Item 3 – Lump Sum Bid for Temporary Power Provision

Bidder agrees to accept as full payment for the **Lump Sum Work** required to provide temporary power to adjacent homes impacted by the work proposed within the Bidding Documents, and described in Measurement and Payment, based upon the undersigned’s own estimate of quantities and costs and including taxes, overhead, and profit, the following:

TEMPORARY POWER LUMP SUM BID PRICE: \$ \_\_\_\_\_

3.04 Bid Item 4 - Cash Allowances

Bidder agrees that the following allowance, as further described in Measurement and Payment for additional work, will be furnished and paid for on a cash allowance basis.

Item	Description	Supplier	Specification *	Cash Allowance
4.1	Package Lift Stations	Gorman Rupp	43 21 13	\$348,967
4.2	Field and Laboratory Testing		01 45 29	\$25,000
4.3	System Integration	MR Systems		\$15,000

3.05 Bid Item 5 - Contingency Allowances

Bidder agrees that the following allowance, as further described in Measurement and Payment for additional work, will be furnished and paid for on a contingency allowance basis.

Item	Description	Contingency Allowance
5.1	Unforeseen Work Elements	\$100,000

Bidder acknowledges that the total of the amounts shown above are estimated amounts to be included in the Base Bid, and that final payment will be based on actual costs as determined in conformance with the Bidding Documents and as authorized by Change Order.

3.06 Total Base Bid

TOTAL BASE BID PRICE (Sum of Items 1 through 5): \$ \_\_\_\_\_

TOTAL BASE BID WRITTEN IN WORDS

\_\_\_\_\_ Dollars and \_\_\_\_\_ Cents

**SECTION 00 43 39.01**  
**SLBE PROGRAM - GOAL**

**1.01 SLBE Program Overview**

Clayton County Water Authority (CCWA) implemented a Small Local Business Enterprise (SLBE) Program to promote full and open competition in all government procurement and purchasing.

The SLBE program provides an additional race-and gender-neutral tool for the Authority to use in its efforts to ensure that all segment of its local business community have a reasonable and significant opportunity to participate in Authority Solicitations.

SLBEs must perform a commercially useful function, which means performance of provision of real and actual services under the contract or subcontract with CCWA. Factors such as the nature and amount of the work subcontracted; whether the SLBE has the skill and expertise to perform the work for which it has been certified; whether the SLBE actually performs, manages or supervises the work; and whether the SLBE intends to purchase commodities and/or services from a non-SLBE and simply resell them will be considered in determining if the SLBE is performing a commercially useful function.

SLBE in CCWA refers to a locally-based small business which meets the following criteria:

- Independently owned and operated business concern whose average annual gross receipts for the previous three years must not exceed: (1) Construction Firms – \$18,250,000; (2) Professional Services Firms – \$5,500,000; (3) Architectural Firms – \$3,750,000; (4) Engineering Firms – \$7,500,000, and (5) Goods and Services – less than 250 employees.
- Locally based, meaning located and operating in Clayton County or the ten (10) counties of Cherokee, Cobb, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Henry, Rockdale and Spalding for at least one year.
- Note: Complete CCWA SLBE Certification Requirements are listed on the Provisional and General Certification Applications; <https://www.ccwa.us>. To be considered a CCWA SLBE Certified Firm, the vendor shall complete the Certification Process by the bid submission deadline.

To encourage participation in contracting regardless of company size, the Authority provides bidders with Bid Incentives to ensure that small businesses maintain a

competitive advantage in the Authority's bidding process. The Authority's three Bid Incentives; Bid Discounts, Preference Points, and SLBE Goal Incentives utilization are determined on a solicitation by solicitation basis.

## **1.02 SLBE Incentive Type**

The purpose of this section is to communicate the use of an SLBE Incentive (Bid Discount, Preference Points, SLBE Goal) in the solicitation and provide instructions or requirements of the intended SLBE Incentive.

This solicitation offers the following SLBE Incentive:

### **Utilization Goals**

Utilization Goals are set to encourage Prime Contractors to utilize CCWA SLBE Firms as subcontractors.

The Utilization Goal set for a project is determined by the CCWA Project Manager and Purchasing Department. The Project Manager considers the commercially useful functions a Prime Contractor can outsource within the Scope of Work to CCWA SLBE Firms as Subcontractors.

The Prime Contractor shall employ and document the Good Faith Efforts for all subcontracts, even if the Prime Contractor has achieved the fair share objectives of the SLBE Goal Percentage. Good Faith Efforts fair share objectives are also set on a procurement-by-procurement basis. Prime Contractors are required to contact a minimum number of CCWA SLBE Firms as set by the Small Business Procurement Coordinator.

Efforts must be documented in Section 1.04 SLBE Appendix B. Bid Package Compliance Documents - Forms 1-4.

- The **SLBE Subcontractor Utilization Goal** for this procurement is **5%**.
- **Good Faith Effort** - demonstration of a minimum of 3 CCWA Certified SLBE Firms contacted to achieve the SLBE Subcontractor Utilization Goal.
- **CCWA SLBE Goal Incentive Forms** submission as listed in Section 1.04 SLBE Appendix B. (Forms must be completed for Bidder to be considered responsive.)

The awarded bidder must comply with SLBE Monthly Participation Report Requirement as discussed in Section 1.04 SLBE Appendix B. Post-Award Award Compliance Documents.

No substitution/replacement for any SLBE Subcontractor, vendor, or previously selected Subcontractor/vendor by the Prime shall be made without written notification to CCWA and the approval by CCWA. A Prime cannot arbitrarily terminate a SLBE Subcontractor and self-perform the work without requesting a waiver and written approval from CCWA in advance.

SLBE Subcontractors can be replaced if they are unable or unwilling to perform the contracted work, or for other appropriate reasons, which are documented in writing. If it appears that the SLBE subcontracting requirement cannot be achieved, the Prime Contractor shall immediately notify CCWA in writing accompanied by the appropriate documentation. Good Faith Effort used to try to meet at least a portion of the requirement should be documented and submitted to CCWA for evaluation. All Prime Contractors seeking substitutions must use “Form SLBE-6: Request for SLBE Subcontractor Removal/Substitution Form” in Section 1.04 SLBE Appendix B. Post-Award Award Compliance Documents.

### **1.03 SLBE Conclusion**

A Contractor does not have to be a CCWA SLBE Certified Firm to participate in a solicitation where Bid Discount or Preference Points Incentives are offered.

In a solicitation where an SLBE Utilization Goal Incentive is offered, Prime Contractors must demonstrate “good faith efforts” as outlined in the SLBE Goal Incentive Section 1.02 towards achieving the SLBE Subcontractor Utilization Goal.

By signing the bid, the bidder is certifying that he/she has complied with the requirements of this program. Please contact the Small Business Procurement Coordinator at [ccwa\\_slbe\\_program@ccwa.us](mailto:ccwa_slbe_program@ccwa.us) for a list of CCWA Certified SLBE Firms or information on becoming certified.

### **1.04 SLBE Appendix**

#### **A. Forms Required for Preference Point or Bid Discount Incentive Solicitations ONLY**

For CCWA SLBE Certified Firms claiming a bid discount or preference points, a copy of their valid CCWA SLBE Certification Letter must be provided with their Bid Response.

#### **B. Forms Required for SLBE Goal Incentive Solicitation ONLY**

**Bid Package Compliance Documents (To be submitted with Solicitation):**

SLBE-1 – Covenant of Non-Discrimination: The signed agreement stating that the firm will not discriminate on the basis of a firm's size (revenue or employee count) with regard to prime contracting, subcontracting, or partnering opportunities.

SLBE-2 – Sub-Contractor Contact Form: A list of all firms contacted to participate as SLBE sub-contractors/suppliers on a contract.

SLBE-3 – SLBE Sub-Contractor/Supplier Utilization Form: A list of all firms procured as SLBE sub-contractors/suppliers to be utilized on a contract.

SLBE-4 – Statement of Good Faith Efforts (Including the Checklist): Documented efforts to seek and procure the utilization of SLBEs as sub-contractors/suppliers on a contract where a goal is required.

**Post Award Compliance Documents (To be submitted by awarded Contractor):**

SLBE-5 – Post Award – Monthly SLBE Participation Report – Contract Goal: Report detailing percentage of SLBE participation (work performed) and payments to SLBEs on a contract.

SLBE-6 Request for Subcontractor Removal/Substitution Form: Required to fill out and obtain approval if a SLBE subcontractor is being substituted following award.

**END OF SECTION**

**FORM SLBE-1**  
**COVENANT OF NON-DISCRIMINATION**

The undersigned understands that it is the policy of the Clayton County Water Authority (CCWA) to promote full and equal business opportunity for all persons doing business with CCWA. The undersigned covenants that we have not discriminated on the basis of a firm's revenue or employee count with regard to prime contracting, subcontracting or partnering opportunities. The undersigned further covenants that we have completed truthfully and fully the required forms SLBE-2, SLBE-3 and SLBE-4. Set forth below is the signature of an officer of the proposing entity with CCWA to bind the entity.

I, \_\_\_\_\_, \_\_\_\_\_ (Name, Title), on behalf of \_\_\_\_\_ (Company),  
by my signature below, do hereby promise:

1. To adopt the policies of Clayton County relating to equal opportunity in contracting on projects and contracts funded, in whole or in part, with funds of CCWA;
2. Not to otherwise engage in discriminatory conduct;
3. To provide a discrimination-free working environment;
4. That this Covenant of Non-Discrimination shall be continuing in nature and shall remain in full force and effect without interruption; and
5. That this Covenant of Non-Discrimination shall be incorporated by reference into any contract or portion thereof which we may hereafter obtain.

We understand that our failure to satisfactorily discharge any of the promises of non-discrimination as made and set forth herein shall constitute a material breach of contract.

\_\_\_\_\_  
Signature of Attesting Party

\_\_\_\_\_  
Title of Attesting Party

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, before me  
appeared \_\_\_\_\_, the person who signed the above  
covenant in my presence.

\_\_\_\_\_  
Notary Public  
[Seal]

\_\_\_\_\_  
My Commission Expires

**FORM SLBE-2**  
**SUB-CONTRACTOR CONTACT FORM**

**Instructions:** List all sub-contractors or suppliers (SLBE and Non-SLBE) that were contacted regarding this project. (Complete entire form.)

Name of Sub-Contractor	Contact Name, Address and Phone Number	CCWA SLBE Certification Verified	Type of Work Solicited for	Business Ownership <small>(Enter SLBE or Non SLBE)</small>	Results of Contact
i.e. Company ABC	123 Main Street Morrow, GA 30260 770-123-4698	Yes	Hauling	SLBE	Will perform as sub; Proposal submitted; Will not bid; etc.



**FORM SLBE-2**  
**SUB-CONTRACTOR CONTACT FORM** (continued)

Name of Sub-Contractor	Contact Name, Address and Phone Number	CCWA SLBE Certification Verified (Y/N)	Type of Work Solicited for	Business Ownership <i>(Enter SLBE or Non SLBE)</i>	Results of Contact

\_\_\_\_\_  
 Authorized Signature

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Bidder's Company Name

\_\_\_\_\_  
 Representative's Name and Title

**FORM SLBE-3  
INTENDED SUB-CONTRACTOR UTILIZATION FORM**

**Instructions:** List all subcontractors (SLBE, Non-SLBE), of all tiers to be used on this project. (Complete entire form).

Name of Sub-Contractor/ Supplier	CCWA SLBE Certification No.	CCWA SLBE Expiration Date	NAIC or NIGP Code	Type of Work to be Performed	Estimate Dollar (\$) Value of Work	Percentage of Total Bid Amount
Company ABC	SLBE-3465-12	1/15/2017	96239	Hauling	\$4200	8.4%

Total SLBE Usage (%): \_\_\_\_\_

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Bidder's Company Name

\_\_\_\_\_  
Representative's Name and Title

**FORM SLBE-4**  
**CERTIFICATION OF GOOD FAITH EFFORTS & CHECKLIST**

**Instructions:** Prime Contractors must employ and document the Good Faith Efforts for all solicitations, even if the Prime Contractor has achieved the fair share objectives of the SLBE Goal Utilization Percentage. The Statement of Good Efforts Checklist shall be utilized to achieve such objectives. On the checklist indicate the actions taken in achieving the Good Faith Effort set for this bid: **Note:** For any questions answered no, Bidders shall submit a narrative explanation of reason for not completing the checklist item.

YES	NO	CHECKLIST ACTIONS
<input type="checkbox"/>	<input type="checkbox"/>	Attendance at a pre-bid meeting to inform SLBEs of subcontracting opportunities under a given solicitation; Advertisement for solicitation of SLBEs in general circulation media, trade association publications, and minority-focus media, to provide notice of subcontracting opportunities.
<input type="checkbox"/>	<input type="checkbox"/>	Advertisement in general circulation media at least seven (7) days prior to Bid or proposal opening any and all Sub-contractor opportunities.
<input type="checkbox"/>	<input type="checkbox"/>	Provided interested SLBEs with timely, adequate information about the plans specifications, and other relevant requirements to facilitate their quotation and conducted follow up to initial solicitations.
<input type="checkbox"/>	<input type="checkbox"/>	Provided written notice to SLBEs that their interest in subcontracting opportunities or furnishing supplies is solicited.
<input type="checkbox"/>	<input type="checkbox"/>	Efforts were made to divide the work for SLBE subcontracting in areas likely to be successful and identify portions of work available to SLBEs consistent with their availability. Include a list of divisions of work not subcontracted and the corresponding reasons for not including them. The ability or desire of a Bidder/Proposer to perform the work of a contract with its own organization does not relieve it of the responsibility to make good faith efforts on all scopes of work subject to subcontracting.
<input type="checkbox"/>	<input type="checkbox"/>	Efforts were made to assist potential SLBE sub-contractors to meet bonding, insurance or other governmental contracting requirements. Where feasible, facilitating the leasing of supplies or equipment when they are of such a specialized nature that an SLBE could not readily and economically obtain them in the marketplace.
<input type="checkbox"/>	<input type="checkbox"/>	Utilization of services of available minority community organizations, minority contractor groups and other organizations that provide assistance in the recruitment and placement of SLBEs.
<input type="checkbox"/>	<input type="checkbox"/>	Communication with the CCWA Small Business Procurement Coordinator seeking assistance in identifying available SLBEs by emailing <a href="mailto:ccwa_slbe_program@ccwa.us">ccwa_slbe_program@ccwa.us</a> .
<input type="checkbox"/>	<input type="checkbox"/>	Exploration of joint venture opportunities with SLBEs.

**Indicate actions achieved:**

- I hereby attest that I have exercised good faith efforts to meet the Small Local Business Enterprise goals for this bid by contacting the minimum required number of active CCWA Certified SLBE Firms to perform a commercially useful function within the Scope of Work and logging those efforts on SLBE Form 2.
- As a result of those good faith efforts, I have been able to meet the SLBE SubContractor Utilization Goal as noted on SLBE Form 3 and supporting outreach efforts documentation.
- Despite such good faith efforts, I have not been able to meet the SLBE SubContractor Utilization Goal and have attached copies of solicitation notices sent via email, fax or mail, and the amount of time given for response and follow up efforts along with SLBE Form 2.

\_\_\_\_\_  
 Authorized Signature

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Bidder's Company Name

\_\_\_\_\_  
 Representative's Name and Title

## FORM SLBE-5 POST AWARD – MONTHLY SLBE PARTICIPATION REPORT

**Instructions:** The Prime Contractor must complete the Monthly SLBE Participation Report and submit the form with each pay application to the CCWA Project Manager managing the contract. Failure to submit this form will result in payment application being deemed incomplete.

PROJECT NO. (S): \_\_\_\_\_ REPORT NO. \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ SUBMISSION DATE: \_\_\_\_\_

CONTRACT AMOUNT: \$ \_\_\_\_\_ PAY APPLICATION PERIOD END DATE: \_\_\_\_\_

Check if final payment >>>>>>>>>>>>>  FINAL PAYMENT

SLBE GOAL % \_\_\_\_\_ SLBE GOAL AMOUNT \$: \_\_\_\_\_

NAME OF APPROVED SLBE	DESCRIPTION OF WORK	PRIOR EARNED PAY APPLICATION AMOUNT	CURRENT EARNED PAY APPLICATION AMOUNT	EARNINGS TO-DATE

I HEREBY CERTIFY THAT THE ABOVE STATEMENT IS TRUE AND CORRECT AND SUPPORTING DOCUMENTATION IS ON FILE AND IS AVAILABLE FOR INSPECTION BY CCWA AT ANY TIME.

SIGNED \_\_\_\_\_  
PRIME CONTRACTOR

REMARKS \_\_\_\_\_  
\_\_\_\_\_

TOTAL SLBE EARNINGS TO-DATE: \_\_\_\_\_  
CONTRACT PERCENT COMPLETED: \_\_\_\_\_

**FOR DEPARTMENT USE ONLY:**

THIS DOCUMENT HAS BEEN REVIEWED AT THAT PROJECT LEVEL BY:

SIGNED \_\_\_\_\_ TITLE \_\_\_\_\_

THIS DOCUMENT HAS BEEN REVIEWED AT THE PROGRAM LEVEL BY:

SIGNED \_\_\_\_\_ TITLE \_\_\_\_\_

**FORM SLBE-6**  
**Request for Subcontractor Removal/Substitution**

**Instructions:** Prior to submitting this form to the SLBE Program Coordinator and contract Project Manager, you must notify the SLBE in writing of your intent and allow the SLBE five (5) days to respond.

Request Date:	Contract/Project #	
Contract Value:	SLBE Contract Amount:	Amount Paid to SLBE:
Prime Contractor Name:		
Prime Contractor Address:		
Prime Contact Name & Email:	Prime Contact Phone:	
Name of SLBE Firm:	SLBE Contact Name:	
SLBE Firm Address:	SLBE Contact Phone:	

Was SLBE firm given five (5) days written notice of intent?  Yes or  No If yes, please attach written notice.

Will the SLBE goal for the project still be met?  Yes or  No If no, please attach reason.

Reason(s) for removal/substitution. **Check all that apply**

- The listed SLBE** is no longer in business.
- The listed SLBE** requested removal.
- The listed SLBE** failed or refused to perform under the terms of the contract or failed to furnish the listed materials.
- The work performed by **the listed SLBE** was unsatisfactory and was not in accordance with the scheduled specifications.

Name/Address of Substitution Contractor:	Is the substituted contractor an SLBE? <input type="checkbox"/> Yes or <input type="checkbox"/> No
Fully describe the type of work the substitute subcontractor will perform:	

Prime Authorized Signature:	Date:
Approved <input type="checkbox"/> Rejected <input type="checkbox"/> Reason for rejection:	
Purchasing Manager Signature:	Date:

**SUBMIT TO:**  
**CLAYTON COUNTY WATER AUTHORITY**  
**ATTN: PURCHASING DEPARTMENT-SLBE PROGRAM**  
[ccwa\\_slbe\\_program@ccwa.us](mailto:ccwa_slbe_program@ccwa.us)

SECTION 01 22 15

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes

<u>Paragraph</u>	<u>Title</u>
1.2	Descriptions
1.3	Nonpayment for Rejected or Unused Products
1.4	Partial Payment for Stored Materials and Equipment
1.5	Bid Items

B. Scope

1. The Bid lists each item of the Project for which payment will be made. No payment will be made for any items other than those listed in the Bid.
2. Required items of work and incidentals necessary for the satisfactory completion of the work which are not specifically listed in the Bid, and which are not specified in this Section to be measured or to be included in one of the items listed in the Bid, shall be considered as incidental to the work. All costs thereof, including Contractor's overhead costs and profit, shall be considered as included in the lump sum or unit prices bid for the various Bid items. The Contractor shall prepare the Bid accordingly.
3. Work includes furnishing all plant, labor, equipment, tools and materials, which are not furnished by the Owner and performing all operations required to complete the Work satisfactorily, in place, as specified and as indicated on the Drawings.
4. The Contractor shall take no advantage of any apparent error or omission on the Drawings or Specifications, and the Engineer shall be permitted to make corrections and interpretations as may be deemed necessary for fulfillment of the intent of the Contract Documents.

1.2 DESCRIPTIONS

A. Measurement of an item of work will be by the unit indicated in the Bid.

- a. Payment of the lump sum items established in the Contractor's Bid shall be full compensation for all labor, materials, and equipment required to furnish, install, construct, and test the Work covered under the lump sum proposal item. Payment of the lump sum items established in the Contractor's Bid shall also fully compensate the Contractor for any other work which is not specified or shown, but which is necessary to complete the Work.

B. Payment will include all necessary and incidental related work not specified to be included in any other item of work listed in the Bid.

C. Unless otherwise stated in individual sections of the Specifications or in the Bid, no separate payment will be made for any item of work, materials, parts, equipment, supplies or related items required to perform and complete the work. The costs for all such items required shall be included in the price bid for item of which it is a part.

D. The lump sum items shall be specifically subdivided by activity/CSI format, broken-out in the Schedule of Values. Each schedule of value's description of work shall contain a unique identifier for the purpose of differentiating each schedule of value. Payments for the lump

sum items specifically broken-out in the Schedule of Values will be based upon physical progress for each activity in accordance with the breakdown of the Lump Sum prices agreed to in the Schedule of Values.

### 1.3 NONPAYMENT FOR REJECTED OR UNUSED PRODUCTS

A. Payment will not be made for the following:

1. Loading, hauling, and disposing of rejected material.
2. Quantities of material wasted or disposed of in manner not called for under Contract Documents.
3. Rejected loads of material, including material rejected after it has been placed by reason of failure of Contractor to conform to provisions of Contract Documents.
4. Material not unloaded from transporting vehicle.
5. Material and equipment not properly stored.
6. Defective Work not accepted by Owner.
7. Material remaining on hand after completion of Work.

### 1.4 PARTIAL PAYMENT OF STORED MATERIALS AND EQUIPMENT

- A. Partial Payment: No partial payments will be made for materials and equipment delivered or stored unless Shop Drawings or preliminary operation and maintenance manuals are acceptable to Engineer.
- B. Final Payment: Will be made only for products incorporated in Work; remaining products, for which partial payments have been made, shall revert to Contractor unless otherwise agreed, and partial payments made for those items will be deducted from final payment.

### 1.5 BID ITEMS

- A. Bid Prices included on the Bid Form shall be full compensation for all materials, labor, equipment, tools, construction equipment and machinery, heat, utilities, transportation, taxes, overhead, markup, incidentals and services necessary for the execution and completion of the Work in the Contract Documents to be performed under this Contract. For the Work described, the lump sum and allowance, actual used and installed quantities of each bid item shall be measured in the field and certified by the Engineer and/or Owner upon completion of construction in the manner set forth for each item in this and other sections of the Specifications. Payment for all items listed on the Bid Form will constitute full compensation for all Work shown and specified to be performed.
- B. **The following items 1 through 5 comprise the Base Bid Total as listed on the Bid Form.**
1. **LONDON COURT LIFT STATION IMPROVEMENTS**
    - a. **MEASUREMENT:** Measurement shall be based on the successful completion of the installation and start-up of the improved London Court lift station, as required by the plans and specifications.
    - b. **PAYMENT:** The Lump Sum Price bid under this section shall include the furnishing of all labor, materials, and equipment for properly installing the upgraded at the London Court lift station, including but not limited to, removal of the existing package lift station, site demolition as required by the drawings and specifications, removal of one standby generator and installation of one new standby generator, modifications to the electrical system, removal of existing electrical panels, installation of new conduit and wiring, installation of new wet well, installation of new package lift station, start-up and testing of new lift station, and all related appurtenances for a complete and functioning system as shown or specified in the Contract Documents.

2. CRISTI COURT LIFT STATION IMPROVEMENTS

- a. MEASUREMENT: Measurement shall be based on the successful completion of the installation and start-up of the improved Cristi Court lift station, as required by the plans and specifications.
- b. PAYMENT: The Lump Sum Price bid under this section shall include the furnishing of all labor, materials, and equipment for properly installing the upgraded at the Cristi Court lift station, including but not limited to, removal of the existing package lift station, site demolition as required by the drawings and specifications, removal of one standby generator and installation of one standby generator (being relocated from the London Ct LS), modifications to the electrical system, removal of existing electrical panels, installation of new conduit and wiring, installation of new wet well, installation of new package lift station, start-up and testing of new lift station, and all related appurtenances for a complete and functioning system as shown or specified in the Contract Documents.

3. TEMPORARY POWER PROVISION

- a. MEASUREMENT: Measurement shall be based on the successfully maintaining temporary power to adjacent homes as required to complete the work shown in the Contract Documents.
- b. PAYMENT: The Lump Sum Price bid under this section shall include the furnishing of all labor, materials, and equipment for providing temporary power to adjacent homes impacted by this work, including but not limited to coordinating with the power utility and providing temporary wire and conduit, portable generators, connections to home power feed, and all required appurtenances for a complete and functioning system as shown or specified in the Contract Documents.

4. CASH ALLOWANCES

a. Package Lift Stations

- 1) MEASUREMENT: An allowance has been established for the value of this item. This allowance may be used, as authorized and directed by the Owner or Engineer, to pay the costs of two (2) packaged lift station systems.
- 2) PAYMENT: Payment will be made for invoices submitted by the Contractor subject to the conditions and limitations in the Contract Document. Submit copies of the invoices with each periodic payment request from the firm providing the services. Submit results of services provided which verify required results.

b. Field and Laboratory Testing

- 1) MEASUREMENT: An allowance has been established for the value of this item. This allowance may be used, as authorized and directed by the Owner or Engineer, to pay the costs of any third-party material testing services used for quality and contract compliance verification of the Work.
- 2) PAYMENT: Payment will be made for invoices submitted by the Contractor subject to the conditions and limitations in the Contract Document. Submit copies of the invoices with each periodic payment request from the firm providing the services. Submit results of services provided which verify required results.

c. System Integration

- 1) MEASUREMENT: An allowance has been established for the value of this item. This allowance may be used, as authorized and directed by the Owner or



Engineer, to pay the costs of the system integrator for making updates to the SCADA system for monitoring and control of the new blowers.

- 2) **PAYMENT:** Payment will be made for invoices submitted by the Contractor subject to the conditions and limitations in the Contract Document. Submit copies of the invoices with each periodic payment request from the firm providing the services.

5. **CONTINGENCY ALLOWANCES**

a. **Unforeseen Work Elements**

- 1) **MEASUREMENT:** An allowance has been established for the value of this item. The Contractor agrees that this allowance is for the sole use of Owner to cover costs associated with Unforeseen Work Elements. Costs shall be determined as specified in General Conditions Article 13.02, and as directed by the Engineer.
- 2) **PAYMENT:** Payment will be made for work not shown or specified in the Drawings or Specifications and not covered by another item in the Bid Schedule based on an agreed upon costs submitted by the Contractor and approved by the Engineer and Owner in advance of the work.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

## PACKAGED CENTRIFUGAL SUCTION LIFT PUMP STATION

## PART 1 GENERAL

## 1.1 SUMMARY

## A. Section Includes

<u>Paragraph</u>	<u>Title</u>
1.2	References
1.3	Administrative Requirements
1.4	Submittals
1.5	Quality Assurance
1.6	Delivery, Storage, and Handling
1.7	Warranty
2.1	Equipment
2.2	Electrical and Control Requirements
2.3	Accessories
2.4	Source Quality Control
3.1	Installation
3.2	Field Quality Control
3.3	Adjusting

## B. Scope

1. Furnish, install, test, and place in satisfactory operation packaged, non-clog, self-priming centrifugal duplex pump station complete with enclosures, on skid piping and valves, and all appurtenances required at the locations shown on the Drawings in compliance with the Specifications.
2. Provide pumps with all accessories, couplings, and other appurtenances as specified, and as may be required for a complete and operating installation.

## 1.2 REFERENCES

## A. Definitions

1. The following definitions are used to clarify restart and test requirements:
  - a. Priming: The start-up at any time when the pump casing is full of water or sewage
  - b. Repriming: Start-up when, for whatever reason, a portion of liquid is lost from the pump casing with the resultant loss of suction head in the suction leg
  - c. Static Suction Lift: The vertical distance, measured in feet, from the centerline of pump suction to the water surface elevation
  - d. Reprime Lift: The static height of the pump suction centerline above the liquid level that will prime utilizing the liquid remaining within the pump casing after a pumping cycle with the suction check valve removed
  - e. Reprime Cycle: Pump on to liquid discharge

## 1.3 ADMINISTRATIVE REQUIREMENTS

### A. Coordination

1. The Contract Documents are intended to describe a pump installation for the specified purpose, complete and ready to be placed into service at the levels of performance indicated in the Drawings and outlined herein. By offering this service to the Owner, Contractor affirms that they are fully knowledgeable regarding the required methods and materials, and are capable of performing such installation. The omission of specific details and / or steps from the Drawings or Specifications, required to perform this installation shall not relieve the Contractor of their sole responsibility for this end result, nor shall such omissions be grounds for requests for additional compensation. Coordinate with other manufacturers and suppliers to provide all details and appurtenances necessary to properly install, adjust, and place in satisfactory operation a complete working unit.

## 1.4 SUBMITTALS

### A. Action Submittals/Informational Submittals

#### 1. Shop Drawings

- a. Submit the following items with the Shop Drawings in accordance with, or in addition to, the requirements specified in Section 01 33 23 – Shop Drawings, Product Data, and Samples and Section 01 60 00 – General Equipment Stipulations.
  - 1) Certified pump performance curves at rated speed and reduced speed (if reduced speeds are specified)
    - a) Indicate flow, head, efficiency, brake horsepower, NPSHr, and minimum submergence.
    - b) Include limits (minimum and maximum flows) for stable operation without cavitation, overheating, recirculation, or excessive vibration.
  - 2) General cutaway sections, materials, dimension of shaft projections, shaft and keyway dimensions, shaft diameter, dimension between bearings, general dimensions of pump, suction head bolt orientation, and anchor bolt locations and forces
  - 3) Dimensioned installation drawings, including drawings indicating the size and location(s) of the priming recirculation port(s)
  - 4) Detailed description of construction, including a parts list with materials of construction and metallurgy with ASTM designations
  - 5) Details of shaft sealing system
  - 6) Functional description of internal and external instrumentation and controls, including a list of parameters monitored, controlled, or alarmed
  - 7) Control panel elevation drawings showing fabrication and placement of operator interface devices and associated elements
  - 8) A motor performance chart showing curves for torque, current, power factor, input/output power, and efficiency and data on starting and no-load characteristics

#### 2. Test and Evaluation Reports

- a. Submit foundry certificates and results of Brinell hardness testing specified herein for impeller and impeller wear plates.

3. Manufacturer Reports
  - a. Submit a certified report prepared by the manufacturer's technical representative certifying satisfactory installation, operation, and in-service placement of pumps.
  - b. Provide Certificate of Proper Installation in accordance with Section 01 91 13, signed by manufacturer's authorized personnel prior to start-up of system.
- B. Closeout Submittals
  1. Operation and Maintenance Data
    - a. Submit Operating and Maintenance Manuals in accordance with Section 01 78 23 – Operating and Maintenance Data.
  2. Warranty Documentation
    - a. Include the manufacturer's warranty in the compiled warranty submittal of all manufacturers' warranties in accordance with Section 01 78 33 – Warranties and Bonds.
- C. Maintenance Material Submittals
  1. Spare Parts
    - a. Include manufacturer's information for the spare parts specified herein with the Shop Drawing submittal.
  2. Tools
    - a. Include manufacturer's information for the special tools and supplies specified herein with the Shop Drawing submittal.

## 1.5 QUALITY ASSURANCE

- A. Qualifications
  1. Manufacturers
    - a. Furnish all pumps from a single manufacturer.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Acceptance Requirements
  1. Ship components containing bearings with lubricant on all bearings.
  2. Deliver all components to site in manufacturer's shipping crates or boxes.
  3. Deliver to site undamaged.
- B. Storage and Handling Requirements
  1. Store above ground, covered, and on platforms, skids, or other supports.
  2. Protect from corrosion and mechanical damage.
  3. Protect electrical components from condensation.
  4. Ship power and control cables with securely-attached caps on cable ends to prevent moisture wicking into cable during storage.
  5. Store with lubricant on all bearings.
  6. Handle all components in such a manner to prevent damage during unloading and installation.
  7. Follow manufacturer's instructions regarding lifting and setting.

## 1.7 WARRANTY

### A. Manufacturer Warranty

1. Provide manufacturer warranty as specified in Section 01 78 33 – Warranties and Bonds with the exception that the warranty period is for two (2) years.

## PART 2 PRODUCTS

### 2.1 EQUIPMENT

#### A. Manufacturers

1. Manufacturer List
  - a. The Gorman-Rupp Company

#### B. Performance/Design Criteria

1. Pump Schedule:

Lift Station	Cristi Court	London Court
Number of Pumps	2 (1+1)	2 (1+1)
Designation/Tag Numbers	P-1, P-2	P-1, P-2
Pump Motor Horsepower	3 hp	25 hp
Suction Diameter (inches)	3	6
Discharge Diameter (inches)	3	6
Liquid Pumped	Municipal Raw Sewage	Municipal Raw Sewage
Temperature of Liquid Pumped	Ambient	Ambient
Drive Type	Constant Speed	Constant Speed
Starter Type	Reduced Voltage Soft Starter	Reduced Voltage Soft Starter
Maximum Size of Solids (Spherical Diameter) (inches)	3	3
Maximum Pump Speed	1050 RPM	1250 RPM
Static Suction Lift (feet)	17.33	11.5
Design Condition	70 gpm @ 21' TDH	600 gpm @ 66' TDH
Station Enclosure Size	77" x 77" x 58"H	8'-0" x 12'-4" x 9'-3.5"H

#### C. Operation

1. Operators
  - a. Operate each pump using the pump HAND-OFF-AUTO (H-O-A) selector switch at the local control panel.
2. Controls
  - a. Pump H-O-A Selector Switch in HAND Position: Pump continuously operates unless automatically stopped by a motor failure.
  - b. Pump H-O-A Selector Switch in OFF Position: Pump does not operate.
  - c. Pump H-O-A Selector Switch in AUTO Position: Pump starts when a high wastewater level is detected by the level control system mounted in the wet well. In general, the level control system sequences pump(s) ON as the wastewater level

increases in the wet well and turns the operating pump(s) OFF as the wastewater level decreases below the control elevations.

- 1) As the wastewater level increases in the wet well, the level control system operates pumps in accordance with the following setpoint elevations, listed from lowest to highest as the wastewater level increases in the wet well:
  - a) “Low Level”: No pumps are permitted to operate unless the wastewater level exceeds this elevation.
  - b) “Start Lead Pump”: The control system starts the pump that is currently designated as the lead pump in the alternation sequence.
  - c) “Start Lag Pump”: The control system starts the pump that is designated as the lag pump in the alternation sequence.
  - d) “High Level”: The control system activates the alarm for high wet well level, and all operating pumps continue to run.
- 2) As the wastewater level decreases in the wet well when pump(s) are operating, the control system sequences the pump(s) OFF, one at a time, until all pumps are stopped.
- 3) When the wastewater level decreases to the “Low Level” elevation in the wet well, the pump station control system automatically alternates the Lead pump and Lag pump(s) designations.

### 3. Operation Sequences

#### a. Motor Failure

- 1) Disables the pump to prevent damage
- 2) Activates the Motor FAIL light and alarm
- 3) After motor fail condition is reset, pump automatically resumes operation in the current mode (HAND or AUTO).

#### b. Power Failure

- 1) When Pump is Running: Operation resumes when power is restored.
- 2) When Pump is in a Fail Condition: Fail indicator reactivates when power is restored.

- c. Provide logic to maintain all alarm and fail condition indication and contact outputs until the Owner manually presses the RESET pushbutton at the local control panel to reset the alarm and fail conditions.

### D. Materials

#### 1. Self-Priming Suction Lift Pump

##### a. General

- 1) Factory build and test horizontal suction lift pump station for mounting on top of the station wet well. Manufacture the assembly to meet the requirements of the latest specifications for horizontal suction lift wet well mounted pump station, with the minimum requirements identified as follows. Construct the station in one complete, factory-built assembly including enclosure. Size the assembly to rest on the top of the wet well.
- 2) Provide the most efficient pump available at the desired design point as recommended by the manufacturer.

- 3) Capable of handling raw, unscreened sewage and wastewater and fully-guaranteed for this use.
  - 4) Designed to retain adequate liquid in the pump casing to ensure unattended, automatic repriming of the pump at its rated speed.
  - 5) Openings and Passages: Large enough to permit the passage of a sphere of the specified diameter, including any trash or stringy material.
  - 6) Equipped with a removable cover plate over an opening in the suction inlet that allows easy access to the pump interior to permit the clearing of stoppages and the service and repair of the internals without disturbing the suction or discharge piping.
  - 7) Incorporate a molded one-piece suction flap check valve capable of being removed and installed through the suction inlet opening without disturbing the suction piping.
    - a) Suction Flap Check Valve: Formed Buna-N or neoprene with a stainless steel hinge.
  - 8) Designed with pusher bolts to allow disassembly of rotating elements.
    - a) Not Acceptable: Pumps using the straight bore keyed attachment requiring “pullers” for removal.
  - 9) Allows removal of the entire rotating assembly, which includes bearings, shaft, seal, and impeller, as a unit from the rear of the casing without disturbing the volute or piping.
  - 10) Not Acceptable: Screens or any internal devices that interfere with priming and performance of the pump.
- b. Pump Casing, Volute, and All Areas Exposed to Wastewater
    - 1) Cast iron conforming to ASTM A48, Class 30 or better.
    - 2) Not Acceptable: Openings of a lesser diameter than the specified sphere size.
  - c. O-Rings
    - 1) Buna-N or Viton
  - d. Impellers and Impeller Wear Plates
    - 1) Austempered ductile iron having a minimum Brinell hardness of 400.
    - 2) Provide means for external adjustment of the clearance between the impeller and wear plate without requiring disassembly of the pump.
    - 3) Furnish pump with openings to provide a line of sight for the adjustment of clearance for the impeller and wear plate.
    - 4) Impeller
      - a) Two-vaned, semi-open, non-clog with integral pump-out vanes on the back shroud.
      - b) Secured with a sockethead self-locking capscrew and conical washer.
    - 5) Impeller Wear Plates
      - a) Fit pump with a replaceable wear plate.
  - e. Pump Shaft
    - 1) AISI 17-4PH stainless steel.

- 2) Contained within a bearing housing.
- f. Bearings
- 1) Provide bearing housing of ample size to contain roller-type radial and thrust ball bearings.
  - 2) Maximum Distance between Bearing and Impeller: 5 inches.
  - 3) A minimum ABMA L10 life of 100,000 hours at all points along the usable portion of the pump curve at maximum pump speed.
  - 4) Oil-lubricated
- g. Shaft Seals
- 1) Provide each pump with a balanced mechanical seal to seal the pump shaft against leakage.
  - 2) Stationary Sealing Member: Tungsten titanium carbide alloy.
  - 3) Mated Rotating Member: Tungsten titanium carbide alloy.
  - 4) Grind and polish each of the mated carbide surfaces to produce a flatness tolerance not to exceed 1/2 a light band, or 5.8 millionths of an inch, as measured by an optical flat and monochromatic light.
  - 5) Stationary Seal Seat: Double floating and self-aligning during periods of shock loads that will cause deflection, vibration, and axial or radial movement of the shaft to ensure the seal faces are in full contact at all times.
  - 6) Install within a separate oil-filled reservoir on the pump housing.
    - a) Oil: Serves as both the lubricating and the cooling media.
    - b) Provide a drain plug opening to check oil for contamination in case of inner seal failure.
  - 7) Accessible by removing the suction inlet cover.
- h. Flexible Coupling
- 1) Connects pump shaft to drive motor.
- i. Oil Level Sight Gauges
- 1) Provide bearing cavity and seal cavity with individual oil level sight gauges to monitor the level and condition of cavity oil.
- j. Drain Plug
- 1) Provide an easily-accessible, tapped, minimum 1-inch diameter drain plug in the bottom of the casing to facilitate draining the pumps for maintenance purposes.
- k. Hardware
- 1) All Exposed Nuts, Bolts, Washers, and Other Fastening Devices: AISI Type 316 stainless steel.
- l. Accessories
- 1) Pump Running Lights
  - 2) Remote Alarm Contacts
  - 3) Time Delays
  - 4) Sequential Alternation



- 5) Pump Prime Failure
- 6) Wet Well Fall Protection Barrier
- 7) Pressure Gauges
- m. Station Suction Piping Below Wet Well Top Plate
  - 1) Appropriately sized by pump station manufacturer
    - a) Minimum Diameter: 4 inches
  - 2) Composed of HDPE
- n. Pump Nameplate
  - 1) In addition to the requirements of Section 01 60 00 – General Equipment Stipulations, include capacity (gallons/minute), rated TDH, speed and efficiency at the rated design point.
- o. Automatic air release valves
  - 1) Furnish an automatic air release valve for each pump. Valves shall be designed to permit the escape of air to the atmosphere during initial priming or unattended re-priming cycles. Upon completion of the priming cycle or re-priming cycle, the valve shall close to prevent re-circulation. Valves shall provide visual indication of valve closure, and shall operate solely on discharge pressure. Valves, which require connection to the suction line, shall not be acceptable.
  - 2) All valve parts exposed to sewage shall be constructed of cast iron, stainless steel, or similar corrosion resistant materials. Diaphragms, if used, shall be of fabric-reinforced neoprene or similar inert material.
  - 3) A cleanout port, three inches in diameter, shall be provided for ease of inspection, cleanout, and service.
  - 4) Valves shall be field adjustable for varying discharge heads.

#### E. Finishes

- a. Primer Materials
  - 1) Clean and apply primer material to steel and cast iron surfaces of pump station in factory in accordance with Section 09 91 00 – Painting.
- b. Shop Finishing Methods
  - 1) Perform shop finishing methods on steel and cast iron surfaces of pump station in accordance with Section 09 91 00 – Painting.
- c. Finish Materials
  - 1) Prepare and apply finish materials to steel and cast iron surfaces of pump station in field in accordance with Section 09 91 00 – Painting.
  - 2) Field touch-up any damaged paint or coatings with compatible paint/coating system in accordance with Section 09 91 00 – Painting.

## 2.2 ELECTRICAL AND CONTROL REQUIREMENTS

- A. Provide all electrical components, wiring, and control devices necessary for a complete, functional system.

All Manufacturer-Furnished Electrical Appurtenances: Rated for installation in a NEC Class I, [Division 2], Group D hazardous location where such classified areas are indicated on the Drawings or specified herein.

B. Electrical Requirements

<b>Motors</b>	<b>Cristi Court LS</b>	<b>London Court LS</b>
Rating	240V, 3 phase, 60 Hz	240V, 3 phase, 60 Hz
Maximum Horsepower (hp)	3	25
Maximum Speed (revolutions/minute)	1,050	1,250
Enclosure	TEFC (Totally enclosed, fan cooled)	TEFC (Totally enclosed, fan cooled)
Insulation	Class F	Class F
Inverter Duty	Yes	Yes
Service Factor	1.15	1.15
Space Heater	Yes	Yes
Motor Winding Temperature Switches	Yes	Yes
<b>Control Panel</b>		
NEMA Rating	3R	3R
Materials of Construction	Type 316 Stainless Steel	Type 316 Stainless Steel

C. Motor

1. Self-Priming Suction Lift Pump

a. General

- 1) Motors will be horizontal ODP with cast iron frame with copper windings, induction type with Class F insulation and 1.15 Service Factor for normal starting torque and low starting current characteristics, suitable for continuous service. The motors not to overload at the design condition or at any head in the operating range as specified.
- 2) Motors shall be tested in accordance with provisions.

b. Drive transmission

- 1) Power to pumps transmitted by v-belt assemblies. The sheave/belt combination will provide speed ratio needed to achieve the specified operating conditions.
- 2) Each drive assembly will utilize at least two v-belts providing minimum a combined safety factor of 1.5. Single belt drives or systems with a safety factor of less than 1.5 are not acceptable. Computation of safety factors will be based on performance data published by the drive manufacturer.
- 3) Pump manufacturer will submit power transmission calculations which document the following:
  - a) Ratio of pump/motor speed
  - b) Pitch diameter of driver and driven sheaves
  - c) Number of belts required per drive
  - d) Theoretical horsepower transmitted per belt, based on pump manufacture's data
  - e) Center distance between pump and motor shafts
  - f) Arc-length correction factor applied to theoretical horsepower transmitted
  - g) Service factor applied to established horsepower
  - h) Safety factor ratio of power transmitted/brake horsepower required

## 2.3 ACCESSORIES

### A. Suction Lift Pumps

#### 1. Controls

- a. Mount the control equipment in a NEMA Type 1 steel enclosure with a hinged access cover.
  - 1) Provide circuit breakers and control switches that are operable without opening the access cover.
- b. Provide a grounding-type convenience outlet on the side of the cabinet for operation of 120 VAC devices.
- c. Provide thermal magnetic air circuit breakers for branch disconnect service and short circuit protection of all motor control and auxiliary circuits.
- d. Provide magnetic across-the-line starters with under-voltage release and overload coils for each phase for each pump motor to give positive protection.
  - 1) Equip each single-phase auxiliary motor with an over-current protection device in addition to the branch circuit breaker or provide impedance protection.
  - 2) Provide each starter with three (3) normally open contacts for owner's use.
- e. Label all switches and provide a coded wiring diagram.
- f. Coordinate the communication and operation of the pump station and local control panel with the pump station control panel as specified in Division 40 – Process Integration.
- g. To reduce exposure to corrosive environments and ensure the control system's reliable, long-term operation, the controller shall have a sealed, user-friendly, graphical interface. The interface shall be comprised of a rotary knob, switches and five (5) columns of ultra-bright, daylight-viewable red LED's. Four (4) 40-segment, 4" columns of LED's shall show the wet well level, the pump on and off control bands, and the high and low alarm setpoint bands. All LED's within a control band shall be illuminated when operating under normal power. A fifth LED column shall indicate the controller's configuration, status, and active alarms. Alarms shall consist of high alarm, low alarm and input signal out of range. Monitor functions shall include control power and normal system operation. Discrete LED's shall show the activation of the differential pump control stages. All alarms shall be provided with contacts to allow remote indication of alarm status.
- h. Provide easy, convenient indication and adjustment of the operating setpoints and controller configuration without the need for tools. For ease of operation and configuration, multiple indicating columns are required. Controllers that provide fewer columns; thus, limiting the viewing of relevant and necessary station information, are specifically precluded by this specification.
- i. Force OFF the pump control circuits with a power loss. Upon power restoration, enable the pumps in an adjustable time-step sequence as required to meet the demand.
- j. Continuously indicate the status of the selected alternation sequence and control modes. Provide 1st On/1st Off, Fixed and Auto Rotate alternation sequences.
- k. Integral span, offset, and damping adjustments shall be easily adjustable. Provide a configurable security lockout feature.

- l. Provide a level simulation function that allows manual manipulation of the displayed process variable. While simulating, the controller shall display both the actual wet well level and the simulated level.
- m. The controller shall contain an RS-232 communication port and have capabilities for connection to a SCADA (Supervisory Control and Data Acquisition) system using Modbus® protocol. The complete assembly shall be designed for use in UL508 Industrial Control Panels.

#### B. Spare Parts

1. Furnish the following spare parts for each series of pumps in accordance with Section 01 60 00 – General Equipment Stipulations:
  - a. One (1) set of bearings
  - b. One (1) complete mechanical seal assembly
  - c. One (1) vacuum pump (if applicable)
  - d. Two (2) complete sets of gaskets and O-ring seals
  - e. Six (6) float switches
  - f. One (1) motor starter with overload block
  - g. Five (5) spare fuses for each type and rating provided
  - h. Five (5) spare lamps for each type provided
  - i. Five (5) spare relays and relay sockets for each type provided
2. Properly pack in containers suitable for long-term storage.
3. Attach labels that clearly designate the contents and the piece(s) of equipment for which they are intended.
4. Store all materials in a location as directed by the Owner.
5. Provide spare parts of the same type and quality as the original components in the furnished pump package(s).

#### C. Special Tools and Supplies

1. Furnish all special tools necessary to disassemble, service, repair, and adjust the pump.
2. Furnish a one-year supply of all lubricating oils and greases as recommended by the manufacturer.

### 2.4 SOURCE QUALITY CONTROL

#### A. Tests and Inspections

1. Perform shop testing in accordance with Section 01 60 00 – General Equipment Stipulations, all applicable methods and standards of the American National Standard for Centrifugal Pump Tests by the Hydraulic Institute, and the following additional requirements:
  - a. Perform shop testing and inspection with Owner present as witness
    - 1) Submit testing procedure to Owner for review and approval before scheduling shop test.
    - 2) Provide Owner with a minimum of two weeks advance notice of the scheduled test date.
  - b. Certification Test
    - 1) Perform on each of the actual assembled pumps to be furnished.

- 2) Test pumps in the manufacturer's facility in accordance with the latest test code of the Hydraulic Institute Level A to determine head vs. capacity and power draw required.
  - 3) Test Range: Shut-off to a minimum of 20 percent beyond the specified design performance capacity.
  - 4) Tolerances: As specified by the Hydraulic Institute Standards with the following exceptions:
    - a) At TDH for Each Design Condition: +10 percent of specified pump capacity for that Design Condition
    - b) At Pump Capacity for Each Design Condition: +5 percent of specified TDH for that Design Condition
    - c) Not Acceptable: Negative tolerances with respect to capacity, TDH, or efficiency at the Design Conditions
  - 5) Generate a pump curve that shows actual flow, head, brake hp, and hydraulic efficiency for each pump furnished.
  - 6) Submit pump curves, each certified by a registered Professional Engineer, to the Owner.
- c. Perform a dry logic test and full operational test with all systems operational on the control panel.
- d. Certified Brinell Hardness Test
- 1) Test each individual impeller and impeller wear plate casting for Brinell hardness in accordance with ASTM E10, reflecting a minimum Brinell hardness of 400.
  - 2) Check each casting in a minimum of two places in an area that is representative of casting thickness.
  - 3) Submit the results of the test, certified by a Registered Professional Engineer, to the Owner for approval before final shipment.

## PART 3 EXECUTION

### 3.1 INSTALLATION

#### A. Special Techniques

1. Install the pump and accessories in accordance with the approved Shop Drawings and the manufacturer's printed instructions and recommendations.

### 3.2 FIELD QUALITY CONTROL

#### A. Field Tests and Inspections

1. Perform field testing in accordance with Section 01 60 00 – General Equipment Stipulations and the following additional requirements:
2. Prime Test
  - 1) Perform a prime test for each pump in the presence of the Owner and the manufacturer's representative.
    - a) Test each pump three times.

- b) Record the elapsed time required to achieve prime for each test. Use the average time of the three tests for each condition, which must be less than or equal to the specified times.
  - c) Reject any individual test result exceeding the specified time by more than 20% and restart the prime test until all three individual test results meet this requirement.
- 2) Conduct the test as follows:
- a) Set the wet well water surface elevation to the normal operating level as shown on Drawings, or as directed by the Owner or Engineer.
  - b) Record time from the instant the starter energizes until the pump comes to full prime and is pumping at full rated capacity against the specified head.
    - (1) Attach pressure gauges to the suction and the discharge of the pump during the test to ensure full prime is reached.
    - (2) Use a standard stop watch to keep time.
- 3) If any pump fails to meet the specified performance criteria or fails to prime within the specified time, Owner will reject that pump.
- a) After a 7-day period to allow the manufacturer to correct any deficiencies, perform a retest that is identical to the first test.
  - b) If any pump fails to perform as specified during retest, remove that pump from jobsite and provide a new pump that performs as specified.
- b. Final Acceptance Test
- 1) Demonstrate pumps are properly installed and are in proper alignment.
  - 2) Demonstrate the pumps operate without overheating or overloading of any parts and without objectionable vibration.
    - a) Vibration: Within the limits of the Hydraulic Institute Standards or the pump manufacturer's limits, if more stringent.
  - 3) Demonstrate the pumps meet the specified Design Conditions.
    - a) Check each pump at maximum speed for a minimum of four (4) points on the pump curve for capacity, TDH, and amperage.
      - (1) Not Acceptable: Exceeding the rated current on the motor nameplate at any point.
      - (2) Motors Rated Less than 5 hp: Only test pump for overcurrent when overheating or other malfunction is evident during general testing.
- c. Furnish all labor, materials, and test apparatus necessary for conducting the field tests at no additional cost to the Owner.

**B. Manufacturer Services**

- 1. Furnish the field services of a qualified, trained, and competent manufacturer's technical representative who has knowledge of the proper installation, operation, and maintenance of the pumps in accordance with Section 01 43 33 – Manufacturer Services. Include the following site visits for each series of pumps:

<b>Service</b>	<b>Number of Trips</b>	<b>Number of Days/Trip</b>
Installation and Testing	1	1
Startup and Training	1	1
Services After Startup	1	1

2. Manufacturer's Technical Representative's Minimum Responsibilities
  - a. Inspect the completed installation of each pump for conformance with manufacturer's recommended installation requirements. At a minimum, include the following:
    - 1) Check oil level in bearing cavity and seal cavity and lubrication of seals (if applicable)
    - 2) Check proper rotation.
    - 3) Check power supply voltage.
    - 4) Megger for insulation breaks or moisture.
    - 5) Measure motor no-load current.
    - 6) Manually trip sensors and check complete cycle of control operation.
  - b. Supervise field test of each pump.
  - c. Supervise initial startup and operation of each pump.
  - d. Instruct Owner's personnel in proper operation and maintenance of pump.
  - e. Prepare and certify field inspection report.

### 3.3 ADJUSTING

- A. After installation, align, balance, and adjust the pump and accessories as required for proper operation and proper alignment.

END OF SECTION

# **ATTACHMENT NO. 1**

**[ADD. 1]**





# Gorman-Rupp Pump Station Quotation



<b>Distributor Co:</b>	Templeton & Associates Sales	<b>Quotation Number:</b>	Q22-0447-C
<b>Salesman:</b>	Jordan Longoria	<b>Quotation Date:</b>	03/23/2023
<b>Project Name:</b>	Cristi Court Lift Station	<b>Expiration Date:</b>	06/30/2023
<b>Project City:</b>	Clayton County		
<b>Project State:</b>	Georgia	<b>App Engineer:</b>	Diercks, Jonathan
<b>Project Engineer:</b>	Andrew Waters P.E.		

## STATION INFORMATION

**Revision Notes: Brandon Mowry 11/08/22 [Q22-0447(A)]**  
 Revised to 240V.

**Brandon Mowry 03/16/23 [Q22-0447(C)]**  
 changed suction size to 4"  
 changed to soft starters  
 changed pump model to T3A60S-B /WWS  
 ADDED SPARE PARTS TO THE FOLLOWING:  
 LIQUID LEVEL CONTROL  
 CONTROL PANEL  
 PUMP SPARE PARTS  
 MOTOR STARTER

Voltage: ..... 3/60/240

Station Type: ..... AM

**“AM” Description:**

Complete packaged pump station including pump control panel and additional items as described in the quotation below. Package consists of a fiberglass housing, 77" square at the base by 58" high. The pumps are mounted on a steel reinforced fiberglass encapsulated concrete base 6" in cross section.

## PUMPS AND OPTIONS

**Pump(s)**

Pump Number(s): ..... 1,2  
 Model Number: ..... T3A71S-B /WWS  
 Manufacturer: ..... Gorman Rupp  
 Horsepower: ..... 3.00  
 Design Point: ..... 70 GPM @ 21' TDH

**Pump Options**

Pump Spare Parts Kit..... Qty 1, for T3A3S-B /WWS Pump

**Pump Spare Parts Kit Notes: Brandon Mowry 03/16/23 [Q22-0447(C)]**

- 1 set of bearings
- 1 complete mech seal
- 2 complete gasket and O-rings

Note: The T3A71S passes a 2.5” spherical solid as opposed to the 3” Solid noted in the specifications.

## MOTORS

Motors ..... 1,2  
 Horsepower ..... 3.00  
 Enclosure..... TEFC

**Motor Notes: Brandon Mowry 11/08/22 [Q22-0447(A)]**

Motors are to be provided by Toshiba.

## STATION PIPING

### Suction Piping

Suction Elbow:..... 4"

### Discharge Piping

Check Valve Size:..... 4"

Check Valve Type: ..... Lever & Spring

Discharge Size: ..... 4"

Discharge Location: ..... Center

Discharge Isolation Valve:..... 3-Way Plug Valve

Discharge Isolation Valve Actuator:..... Lever

### Suction and Discharge Piping Notes: Brandon Mowry 03/17/23 [Q22-0447(C)]

please provide a 4x3 reducing flange for customer connection

### Discharge Bypass Piping

Plug Valve Size ..... 4"

OPW Connection Size..... 3"

### Air Release Valve(s)

Air Release Valve:..... Qty 2, Automatic, GRP33-07

ARV Isolation..... Ball Valve(s)

### Piping Options

Gauge Panel Kit(s): ..... Qty 2 Range 0-35'

## CONTROL PANEL

### Enclosure

Control Panel NEMA Rating / Material: ..... NEMA 3R (Indoor) / Stainless Steel

Control Panel Mounting: ..... Mounted & Wired

Control Panel Dimensions:..... 36" H x 30" W x 14" D

### Control Panel Enclosure Notes: Brandon Mowry 03/16/23 [Q22-0447(C)]

spare parts

5 spare fuses

5 spare relays and relay sockets

Main Connection Type ..... Main Lug

### Transformer(s)

External Transformer: ..... 3KVA

### Primary Motor Starter

Motor Starter Type ..... RVSS

Motor Starter Mfg ..... Allen-Bradley

Motor Starter Model ..... AB SMC-Flex

### Neamit Patel 03/23/23 [Q22-0447(C)]

1 SPARE SOFT STARTER

### Primary Level Control System

Primary Level Controller:..... Integrinex Standard

Primary Level Sensor: ..... KPSI 700 I.S. Submersible XDCR w/ SPD

### Redundant Level Alarm Floats

High Water Alarm Float (Intrinsically Safe): ..... Included

### Level Control Notes: Brandon Mowry 11/08/22 [Q22-0447(A)]



# Gorman-Rupp Pump Station Quotation



Transducer to be birdcage style transducer.

**Brandon Mowry 03/16/23 [Q22-0447(C)]**

6 spare float switches

**Control Panel Options**

- U.L. Listed (Station And Control Panel): ..... Qty 1 Included
- Panel Heater: ..... Qty 1 Included
- Surge Protective Device: ..... Qty 1 Included
- External Source Contacts: .....
  - 1. PUMP 1 RUN
  - 2. PUMP 2 RUN
  - 3. PUMP 1 FAULT
  - 4. PUMP 2 FAULT
  - 5. HWA
  - 6. LWA
  - 7. PHASE FAILURE
  - 8. REDUNDANT HWA

- Analog Out Surge Protective Device:..... Qty 1 Included
- Additional Breakers:..... Qty 5 Included

**Additional Breakers Notes: Brandon Mowry 11/08/22 [Q22-0447(A)]**

additional breaker provided for incoming 120V power

**Alarms**

- Alarm Light ..... Qty 1, LED, Shipped Loose
- Alarm Horn..... Qty1, Shipped Loose

**FIBERGLASS ENCLOSURE INFORMATION**

- Insulation Package:..... R6
- Enclosure Color: ..... Green
- Enclosure Doors**
- Number of Hinged Doors: ..... 4 Doors
- Enclosure Options**
- Electric Station Heater:..... Qty 1, 1300/1500w Included

**TESTING**

- Certified Pump Performance Test ..... Included

**Certified Pump Performance Test Notes: Brandon Mowry 03/16/23 [Q22-0447(C)]**

pump test requirements don't allow for any negative tolerances



# Gorman-Rupp Pump Station Quotation



## LEAD TIME & PRICING

This quotation includes only equipment specifically mentioned herein and does not include, or infer inclusion of any additional piping, valves, wiring, etc., regardless of its relation to the quoted equipment. Discounts or commissions normally applied to the appropriate type of equipment also apply to these prices. Prices and estimated delivery dates are subject to change without notice in the event that vendors fail to maintain their quoted price and time of delivery to The Gorman-Rupp Company.

Estimated Submittal Time <sup>1</sup> :.....	8-10 Weeks
Estimated Revision Time <sup>1</sup> :.....	5-7 Weeks
Estimated Production Time <sup>1,2,3</sup> :.....	18-22 Weeks

<sup>1</sup> Estimated times are based on workload and vendor lead time trend data compiled at the time of quote and are subject to change without notice. To ensure this information is as accurate as possible please request revised lead times before the scope in this quotation is bid or placed in contract documents for bid.

<sup>2</sup> Estimated production lead time is based on either “approval-waived” or submittal “approval” with no revisions required at time of release to production. Add the “Estimated Revision Time” noted above to orders released to production that require any revisions.

**<sup>3</sup>Due to the unprecedented and ongoing global supply chain constraints – the aforementioned estimated production lead-time is subject to change without notice. We reserve the right to update the estimated lead-time when the order is released to production.**

List Price (.85 Discount):.....	\$ 99,942.00
Shipping (To 1 <sup>st</sup> U.S. Destination): .....	Included



# Gorman-Rupp Pump Station Quotation



PROPOSAL DRAWING and bulletin illustrations are submitted to show general arrangement and approximate dimensions. The Company reserves the right to make such changes in details of design, construction or arrangement of equipment as in its judgment constitute as improvement. Engineering, dimensional and instruction data shall be furnished to the purchaser promptly after acceptance of the proposal for approval. Changes in layout design requested by purchaser after acceptance of proposal will be made at purchaser's expense and may result in a potential change in estimated submittal and/or lead time quoted.

The Gorman-Rupp Company will supply the products as described in this Proposal/Contract (hereinafter the "Scope of Supply"). The products supplied will conform to the Scope of Supply and any modifications thereto as contained in the submittals approved by the project engineer and as received by The Gorman-Rupp Company.

The equipment, apparatus and parts furnished are WARRANTED against defects in materials and workmanship. Specific applicable warranty is available at [www.grpumps.com/warranty](http://www.grpumps.com/warranty).

NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS, SHALL EXIST AS TO ANY EQUIPMENT OR GOODS COVERED HEREBY, ALL SUCH WARRANTIES BEING EXPRESSLY WAIVED BY THE PURCHASER.

The Company will, at its option, repair or replace any equipment or part which proves defective under its warranty provided that the purchaser notifies the Company in writing of such defect within the applicable warranty period and provided further that after start-up service has been performed, the labor to replace accessory items, such as sump pumps, dehumidifiers, relays or alternators, etc., shall be the responsibility of the owner's maintenance personnel. The foregoing states the purchaser's sole remedy for any breach of warranty by the Company.

#### PRICE ESCALATION CLAUSE:

Quoted prices are firm for fifteen (15) days subject to an escalation not to exceed 5% for the following thirty (30) days and 1-1/2% per month thereafter.

Orders accepted by The Gorman-Rupp Company will be held firm if the orders are approved and released for production within forty-five (45) days provided shipment is accepted by the customer immediately following completion of production.

Orders accepted by The Gorman-Rupp Company where production release or shipment is delayed by the customer beyond thirty (30) days following acceptance of order by The Gorman-Rupp Company, prices will be subject to an escalation not exceed 1-1/2% per month until again released.

Price escalation will not exceed Federal guidelines.

THE AMOUNT OF ANY APPLICABLE TAX or other Government charge upon the production, sales, shipment and/or use of the equipment covered by this quotation shall be added to the price and shall be paid by the purchaser.

ALL ORDERS SHALL BE MADE OUT to The Gorman-Rupp Company; 600 South Airport Road; Mansfield, Ohio and shall be subject to acceptance by the Company. ORDER MAY BE CANCELED ONLY with the Company's written consent and ON TERMS that will indemnify the Company against loss. Cancellation fees shall be assessed in an amount equal to 50% of the Proposal/Contract amount after acceptance of the proposal for approval and/or purchaser receives submittal information; 100% of the Proposal/Contract amount after acceptance of the proposal for approval and/or verbal written approval release for production.

Performance of any contract by the Company shall be contingent upon credit approval, strikes, fires, accidents, war reduced supply of fuel or raw materials, or other restraints affecting shipments or curtailments in manufacturing or due to delays unavoidable or beyond the control of the Company.

THE COMPANY SHALL NOT, in any event, be liable for indirect, special, consequential or liquidated damages or penalties, whether based upon contract, warranty, tort or negligence.

When purchaser asks that equipment be warehoused or held for a stated or indefinite period after the equipment is ready for shipment, it is expressly understood and agreed that billing will be accepted as of the date when the equipment is ready for shipment and that STORAGE CHARGES (NOT TO EXCEED 1-1/2% PER MONTH) will apply thirty (30) days from that date.

Unless otherwise specified, DELIVERIES QUOTED are figured from the date of release to production. Statements as to expected shipment dates from the factory represent the Company's best judgment. Purchaser hereby waives all claim to damage caused by delay in shipment or delivery.

Unless otherwise specified, TERMS are Net 45 days from date of invoice, F.O.B., Mansfield, Ohio with freight allowed to the job site or first destination, whichever is applicable. All terms of credit are subject to the Company's approval and are independent of and not contingent upon the time and manner in which the purchaser may receive payment from others. Purchaser shall be notified of any changes in credit terms prior to acceptance of order.

ANY INDEBTEDNESS OWING TO THE COMPANY for a period longer than (30) days shall BEAR INTEREST until paid at the current prime rate. If the Company finds it necessary to place any indebtedness hereunder in the hands of an attorney for collection, purchaser shall pay all expenses and costs of collection, including reasonable attorney's fees.

THE PROVISIONS on the face hereof and these Terms and conditions constitute the entire agreement among the parties and supersede the provisions of any purchase order, other communication between the parties or any statement or representation not included herein. This Agreement may not be modified or amended except in writing signed by the parties intended to be bound thereby.

This Agreement shall be governed by the laws of the State of Ohio.



# Gorman-Rupp Pump Station Quotation



<b>Distributor Co:</b>	Templeton & Associates Sales	<b>Quotation Number:</b>	Q22-0446-D
<b>Salesman:</b>	Jordan Longoria	<b>Quotation Date:</b>	03/23/2023
<b>Project Name:</b>	London Court Lift Station	<b>Expiration Date:</b>	06/30/2023
<b>Project City:</b>	Clayton County		
<b>Project State:</b>	Georgia	<b>App Engineer:</b>	Diercks, Jonathan
<b>Project Engineer:</b>	Andrew Waters P.E.		

## STATION INFORMATION

**Revision Notes: Brandon Mowry 11/08/22 [Q22-0446(A)]**  
 Revised for 240V

customer has 120V available at site.  
 deleted external transformer

**Brandon Mowry 03/16/23 [Q22-0446(D)]**  
 CHANGED TO T6A3S-B /WWS  
 ADDED EXTRA SPARE PARTS  
 CHANGED TO TEFC MOTORS

Voltage: ..... 3/60/240  
 Station Type: ..... AL

### “AL” Description:

Complete packaged pump station including pump control panel and additional items as described in the quotation below. Station consists of a package pumping station, fully tested, in a fiberglass housing, 8' wide at the base by 12'-4" long by 9'-3.5" high. The pumps are mounted on a fiberglass encapsulated concrete base 8" in cross section with steel reinforcement.

## PUMPS AND OPTIONS

### Pump(s)

Pump Number(s): ..... 1,2  
 Model Number: ..... T6A71S-B /WWS  
 Manufacturer: ..... Gorman Rupp  
 Horsepower: ..... 25.00  
 Design Point: ..... 600 GPM @ 66' TDH

### Pump Notes: Brandon Mowry 11/08/22 [Q22-0446(A)]

Reference drawing 45133-020 for pump layout. Requested layout is for the pumps to face the short wall.

### Pump Options

Pump Spare Parts Kit..... Qty 1, for T6A3S-B /WWS Pump

### Pump Spare Parts Kit Notes: Brandon Mowry 03/16/23 [Q22-0446(D)]

IN ADDITION TO THE STANDARD PARTS KIT PLEASE INCLUDE THE FOLLOWING

- § 1 set of bearings
- § 1 complete mech seal
- § 2 complete gaskets and O-ring

Drain Kit..... Hose Quantity 1, 10' long

## MOTORS

Motors ..... 1,2  
 Horsepower ..... 25.00  
 Enclosure..... TEFC



# Gorman-Rupp Pump Station Quotation

**Motor Notes: Brandon Mowry 11/08/22 [Q22-0446(A)]**

Motors to be provided by Toshiba

Neamit Patel 11/14/22 [Q22-0446(A)]

**TEFC: 0204SDSR41A-P, MOTOR.EQP GLOBAL  
SD.25HP.1800RPM.3PH.60HZ.230/460V.TEFC.256T****STATION PIPING**

<b>Suction Piping</b>	
Suction Elbow:.....	6"
<b>Discharge Piping</b>	
Check Valve Size:.....	6"
Check Valve Type: .....	Lever & Spring
Discharge Size: .....	6"
Discharge Location:.....	Center
Discharge Isolation Valve:.....	3-Way Plug Valve
Discharge Isolation Valve Actuator:.....	Lever
<b>Discharge Bypass Piping</b>	
Plug Valve Size.....	6"
OPW Connection Size .....	6"
<b>Air Release Valve(s)</b>	
Air Release Valve: .....	Qty 2, Automatic, GRP33-07
ARV Isolation.....	Ball Valve(s)
<b>Piping Options</b>	
Gauge Panel Kit(s):.....	Qty 2 Range 0-140'

**CONTROL PANEL**

<b>Enclosure</b>	
Control Panel NEMA Rating / Material: .....	NEMA 3R (Indoor) / Stainless Steel
Control Panel Mounting: .....	Mounted & Wired
Control Panel Dimensions: .....	60" H x 36" W x 16" D

**Control Panel Enclosure Notes: Brandon Mowry 11/08/22 [Q22-0446(A)]**

120/240, 3 OT, 4 WIRE DELTA CONNECTED WITH HIGH LEG

**Brandon Mowry 11/08/22 [Q22-0446(A)]**

DESIGN THE CONTROL PANEL BASED ON AVAILABLE SHORT CURCUIT CURRENT OF 10ka, RMS SYMMETRICAL

Main Connection Type .....	Main Lug
<b>Transformer(s)</b>	
Internal Transformer:.....	0.5KVA
External Transformer: .....	5KVA
<b>Primary Motor Starter</b>	
Motor Starter Type .....	RVSS
Motor Starter Mfg. ....	Allen-Bradley
Motor Starter Model .....	AB SMC-Flex

**Motor Circuit Notes: Neamit Patel 03/23/23 [Q22-0446(D)]**

1 Spare Soft Starter provided.







# Gorman-Rupp Pump Station Quotation



**Electric Station Heater Notes: Brandon Mowry 11/08/22 [Q22-0446(A)]**

5KW to maintain UL listing

Floor Drain Kit: ..... Qty 1 Included  
Load Center ..... Included

**TESTING**

Certified Pump Performance Test ..... Included

**Certified Pump Performance Test Notes: Brandon Mowry 03/16/23 [Q22-0446(D)]**

- o Pump test requirements don't allow for any negative tolerances



# Gorman-Rupp Pump Station Quotation



## LEAD TIME & PRICING

This quotation includes only equipment specifically mentioned herein and does not include, or infer inclusion of any additional piping, valves, wiring, etc., regardless of its relation to the quoted equipment. Discounts or commissions normally applied to the appropriate type of equipment also apply to these prices. Prices and estimated delivery dates are subject to change without notice in the event that vendors fail to maintain their quoted price and time of delivery to The Gorman-Rupp Company.

Estimated Submittal Time <sup>1</sup> :.....	14-16 Weeks
Estimated Revision Time <sup>1</sup> :.....	5-7 Weeks
Estimated Production Time <sup>1,2,3</sup> :.....	18-22 Weeks

<sup>1</sup> Estimated times are based on workload and vendor lead time trend data compiled at the time of quote and are subject to change without notice. To ensure this information is as accurate as possible please request revised lead times before the scope in this quotation is bid or placed in contract documents for bid.

<sup>2</sup> Estimated production lead time is based on either “approval-waived” or submittal “approval” with no revisions required at time of release to production. Add the “Estimated Revision Time” noted above to orders released to production that require any revisions.

**<sup>3</sup>Due to the unprecedented and ongoing global supply chain constraints – the aforementioned estimated production lead-time is subject to change without notice. We reserve the right to update the estimated lead-time when the order is released to production.**

Total Lump Sum Price:.....	\$ 249,025.00
Shipping (To 1 <sup>st</sup> U.S. Destination): .....	Included



# Gorman-Rupp Pump Station Quotation



PROPOSAL DRAWING and bulletin illustrations are submitted to show general arrangement and approximate dimensions. The Company reserves the right to make such changes in details of design, construction or arrangement of equipment as in its judgment constitute as improvement. Engineering, dimensional and instruction data shall be furnished to the purchaser promptly after acceptance of the proposal for approval. Changes in layout design requested by purchaser after acceptance of proposal will be made at purchaser's expense and may result in a potential change in estimated submittal and/or lead time quoted.

The Gorman-Rupp Company will supply the products as described in this Proposal/Contract (hereinafter the "Scope of Supply"). The products supplied will conform to the Scope of Supply and any modifications thereto as contained in the submittals approved by the project engineer and as received by The Gorman-Rupp Company.

The equipment, apparatus and parts furnished are WARRANTED against defects in materials and workmanship. Specific applicable warranty is available at [www.grpumps.com/warranty](http://www.grpumps.com/warranty).

NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS, SHALL EXIST AS TO ANY EQUIPMENT OR GOODS COVERED HEREBY, ALL SUCH WARRANTIES BEING EXPRESSLY WAIVED BY THE PURCHASER.

The Company will, at its option, repair or replace any equipment or part which proves defective under its warranty provided that the purchaser notifies the Company in writing of such defect within the applicable warranty period and provided further that after start-up service has been performed, the labor to replace accessory items, such as sump pumps, dehumidifiers, relays or alternators, etc., shall be the responsibility of the owner's maintenance personnel. The foregoing states the purchaser's sole remedy for any breach of warranty by the Company.

#### PRICE ESCALATION CLAUSE:

Quoted prices are firm for fifteen (15) days subject to an escalation not to exceed 5% for the following thirty (30) days and 1-1/2% per month thereafter.

Orders accepted by The Gorman-Rupp Company will be held firm if the orders are approved and released for production within forty-five (45) days provided shipment is accepted by the customer immediately following completion of production.

Orders accepted by The Gorman-Rupp Company where production release or shipment is delayed by the customer beyond thirty (30) days following acceptance of order by The Gorman-Rupp Company, prices will be subject to an escalation not exceed 1-1/2% per month until again released.

Price escalation will not exceed Federal guidelines.

THE AMOUNT OF ANY APPLICABLE TAX or other Government charge upon the production, sales, shipment and/or use of the equipment covered by this quotation shall be added to the price and shall be paid by the purchaser.

ALL ORDERS SHALL BE MADE OUT to The Gorman-Rupp Company; 600 South Airport Road; Mansfield, Ohio and shall be subject to acceptance by the Company. ORDER MAY BE CANCELED ONLY with the Company's written consent and ON TERMS that will indemnify the Company against loss. Cancellation fees shall be assessed in an amount equal to 50% of the Proposal/Contract amount after acceptance of the proposal for approval and/or purchaser receives submittal information; 100% of the Proposal/Contract amount after acceptance of the proposal for approval and/or verbal written approval release for production.

Performance of any contract by the Company shall be contingent upon credit approval, strikes, fires, accidents, war reduced supply of fuel or raw materials, or other restraints affecting shipments or curtailments in manufacturing or due to delays unavoidable or beyond the control of the Company.

THE COMPANY SHALL NOT, in any event, be liable for indirect, special, consequential or liquidated damages or penalties, whether based upon contract, warranty, tort or negligence.

When purchaser asks that equipment be warehoused or held for a stated or indefinite period after the equipment is ready for shipment, it is expressly understood and agreed that billing will be accepted as of the date when the equipment is ready for shipment and that STORAGE CHARGES (NOT TO EXCEED 1-1/2% PER MONTH) will apply thirty (30) days from that date.

Unless otherwise specified, DELIVERIES QUOTED are figured from the date of release to production. Statements as to expected shipment dates from the factory represent the Company's best judgment. Purchaser hereby waives all claim to damage caused by delay in shipment or delivery.

Unless otherwise specified, TERMS are Net 45 days from date of invoice, F.O.B., Mansfield, Ohio with freight allowed to the job site or first destination, whichever is applicable. All terms of credit are subject to the Company's approval and are independent of and not contingent upon the time and manner in which the purchaser may receive payment from others. Purchaser shall be notified of any changes in credit terms prior to acceptance of order.

ANY INDEBTEDNESS OWING TO THE COMPANY for a period longer than (30) days shall BEAR INTEREST until paid at the current prime rate. If the Company finds it necessary to place any indebtedness hereunder in the hands of an attorney for collection, purchaser shall pay all expenses and costs of collection, including reasonable attorney's fees.

THE PROVISIONS on the face hereof and these Terms and conditions constitute the entire agreement among the parties and supersede the provisions of any purchase order, other communication between the parties or any statement or representation not included herein. This Agreement may not be modified or amended except in writing signed by the parties intended to be bound thereby.

This Agreement shall be governed by the laws of the State of Ohio.