City of Bel Aire, Kansas

# **STAFF REPORT**

DATE: 5/7/2024

TO: City Manager

FROM: Marty McGee

RE: Pump House- Pump Replacement



<u>BACKGROUND</u>: The Bel Aire pump house is the only point of connection with Wichita's water system. The pump house consists of four water pumps and two back flow devices that feed water from Wichita to Bel Aire. This allows us to maintain our daily demands and provide our citizens with the amount of water that is expected from a city.

<u>DISCUSSION</u>: The pump house controls the amount of water Wichita feeds to Bel Aire. This consists of up to 1.8 million gallons a day. The pumps are a critical device that controls the water through the main and fills our water towers to allow residents to have adequate pressure and clean water each day. As our city grows, the demand for water is only becoming higher. The four pumps are the original pumps from 1985 and need to be replaced to keep up with the higher demand that is being requested. Currently only three out of the four pumps are working and the three that are working are not running at full capacity. This causes the city to struggle to keep up with demand at higher peak times.

Contractors	Bid amount
JCI -Industries	\$53,559.00 Lead time 20 Weeks
MEM – Industrial LLC.	\$ 89,657.86 Lead time 20 Weeks

<u>FINANCIAL CONSIDERATIONS</u>: Funding for this project will be taken from the water Operations funds.

<u>POLICY DECISION</u>: Staff is adhering to City policy in gathering a minimum of three bids but was only able to obtain two bids due to the specialty job requirements to perform this job.

<u>RECOMMENDATION</u>: Staff recommends the City Council accept the bid from JCI In the amount of \$53,559.00.

Information attached, please review.





Bel Aire booster Aurora 4x5x13.5.pdf statioin rebuild.docx

MEM-Information \$89,657.86



Estimate\_14601\_fro m\_MEM\_INDUSTRIAL





Date: April 28, 2024

To: Marty McGee Public Works Director Bel Aire, KS

JCI is pleased to provide the following proposal to upgrade the pumps at your water booster station:

Option 1--remove the existing 4 pumps and motors -Install Qty. 4- new Aurora model 3804-4x5-13.5 pumps -Install Qty. 4- Toshiba model 0404DPSA31A-P 60hp motors -modify existing concrete bases so that the pumps will line up with the existing piping -provide and install new piping to meet up with existing piping -rebuild 4 existing valve actuators -paint new piping and start up

Price- \$53,559.00 Estimated lead time- 20 weeks

Option 2--remove, rebuild, and reinstall existing pumps (these pumps have been obsoleted by the manufacturer; parts are currently available, but we cannot be assured that they will be available in the future.) -rebuild 4 existing valve actuators -this quote does not include the rebuild or repair of the motors

Price- \$44,900.00 Estimated lead time 12-14 weeks

\*Freight included \*Sales tax not included if applicable \*Installation not included except where noted

\*Estimated lead time 20 weeks



Please let us know if you have questions.

Sincerely,

Doug Allen Doug Allen Account Manager

Cell 316-213-2954



## STANDARD TERMS OF SALE (EQUIPMENT AND SERVICES)

1. Applicable Terms. These terms govern the purchase and sale of the equipment (collectively the "Equipment") and related or other services (collectively the "Services") referred to in Seller's purchase order, quotation, proposal or acknowledgment, as the case may be (the "Seller's Documentation"). Whether these terms are included in an offer or an acceptance by Seller, such offer or acceptance is conditioned on Buyer's assent to these terms. Seller rejects all additional or different terms in any of Buyer's forms or documents. Orders for Equipment or Services will not be binding on Seller until accepted in writing by Seller. An acknowledgment in oral or written form or similar communication issued by Seller pursuant to Buyer's purchase order constitutes an expression of acceptance of such purchase order, but such expression of acceptance is expressly conditioned upon Buyer's assent to these terms, which assent will be deemed to have been given by Buyer receiving the Equipment and any Services provided by Seller.

2. Payment. Buyer shall pay Seller the full purchase price for the Equipment and Services as set forth in Seller's Documentation in U.S. Dollars. Unless Seller's Documentation provides otherwise, freight charges, storage charges, insurance premiums and/or other costs and all taxes, duties or other governmental charges relating to the Equipment and Services, as applicable, shall be paid by Buyer. If Seller pays or is required to pay any such charges, Buyer shall immediately reimburse Seller. Unless otherwise provided in Seller's Documentation, all payments are due within 30 days after receipt of invoice from Seller. Seller reserves the right to charge to Buyer the lower of 1 ½% interest per month or the maximum legal rate on all amounts not received by the due date and for all of Seller's reasonable costs (including attorneys' fees, court costs and expenses) of collecting amounts due but unpaid. Seller shall have the right, among other remedies, either to terminate the Agreement or to suspend further deliveries under this and/or other agreements with Buyer in the event Buyer fails to make any payment hereunder when due. All orders are subject to credit approval.

3. Security Interest. To secure Buyer's obligations to pay for the Equipment, Services and all other amounts due or to become due under the Agreement (as defined below), Buyer hereby grants Seller a security interest in the Equipment; all parts, accessories, attachments, replacements and additions related to the Equipment; and all proceeds of any of the foregoing, including, but not limited to, money, checks, deposit accounts and all other cash proceeds and non-cash proceeds and any insurance proceeds payable to Buyer by reason of loss or damage to any of the foregoing property. If Buyer fails to timely make any payments owed under the Agreement or commits any other default under the Agreement, all amounts owed under the Agreement will become immediately due and payable and Seller may proceed to foreclose on the security interest granted herein and may exercise any and all remedies available to it under the Agreement, the Uniform Commercial Code or any other applicable law. Buyer hereby authorizes Seller to file such financing statements relating to the security interest granted herein as Seller deems appropriate.

4. Delivery/Inspection. Delivery of the Equipment and Services shall be in material compliance with the schedule in Seller's Documentation and is contingent upon Seller's prompt receipt of all necessary information and assistance from Buyer. Any delivery dates on Seller's Documentation are estimates only and not a guarantee of delivery on or before such dates. Time is not of the essence with respect to delivery dates. Seller is not responsible for delays in shipment or installation. Seller does not guarantee specific performance or accept responsibility for any liquidated damages, back charges or other losses or penalties that result from delayed delivery, regardless of the cause. Unless Seller's Documentation provides otherwise, delivery terms for Equipment are F.O.B. Seller's facility. Legal title to the Equipment and all risk of loss thereto shall transfer to Buyer upon delivery to the freight carrier at the shipping point. Buyer shall be responsible for all freight costs and securing insurance against risk of loss or damage for the Equipment. Buyer shall notify Seller within 48 hours of delivery of any damage to the Equipment or of any other complaint whatsoever Buyer may have concerning delivery. Buyer shall also note any damage to the Equipment on delivery tickets and shipping receipts at the time of delivery. The failure of Buyer to make such timely complaints and notes shall be deemed an acceptance of the Equipment and a waiver of any claims concerning delivery.

5. Ownership of Materials. All devices, designs (including drawings, plans, prototypes and specifications), estimates, prices, notes, electronic data and other documents or information developed, prepared or disclosed by Seller or at the direction of Seller (collectively the "Seller Materials"), and all related copyrights or other intellectual property rights, shall remain Seller's property. Seller grants Buyer a non-exclusive, non-transferable license to use any such Seller Materials solely for Buyer's use of the Equipment or receipt of the Services. Buyer shall not disclose any such Seller Materials to third parties without Seller's prior written consent and shall not use the Seller Materials for any purpose other than as specifically permitted in the Agreement. Seller may photograph and or record video in areas where the Services are being performed and may use same for advertising/promotional purposes.

6. Changes. If there is a material change in the scope, duration, requirements, assumptions or dependencies described in the Seller's Documentation related to the Services, the parties shall negotiate an appropriate change order or addendum to address the details of the change and any resulting price, schedule or other contractual modifications which shall be memorialized in a mutually executed change order or addendum. This includes any changes necessitated by a change in applicable law occurring after the effective date of any contract including these terms. Seller shall not implement any changes in the scope of Services unless Buyer and Seller agree in writing.

### 7. Limited Warranty.

a. Subject to the limitations contained in this Section and Section 10 below, during the Equipment Warranty Period (as defined below) Seller warrants to Buyer that the Equipment shall materially conform to the description in Seller's Documentation and shall be free



from defects in material and workmanship. The foregoing warranty shall not apply to any Equipment that is specified or otherwise demanded by Buyer ("Buyer Specified Equipment") or is not manufactured by Seller (the "Non-Manufactured Equipment"), and the Buyer Specified Equipment and Non-Manufactured Equipment are sold to Buyer on an "as is" basis. Seller hereby assigns to Buyer, to the extent assignable, any warranties made to Seller with respect to the Non-Manufactured Equipment and Seller shall have no other liability to Buyer under warranty, tort or any other legal theory with respect to the Non-Manufactured Equipment. If Buyer gives Seller prompt written notice of a breach of this warranty within 12 months from delivery of the Equipment (the "Equipment Warranty Period"),

Seller shall, at its sole option and as Buyer's sole remedy, repair or replace the subject parts or refund the purchase price therefor. If Seller determines that any claimed breach is not, in fact, covered by this warranty, Buyer shall pay Seller its then customary charges for any repair or replacement made by Seller. Equipment repaired and parts replaced by Seller during the Equipment Warranty Period shall be in warranty for the remainder of the original Equipment Warranty Period or ninety (90) days after repair or replacement, whichever is longer.

b. Subject to the limitations contained in this Section and Section 10 below, during the Services Warranty Period (as defined below) Seller warrants to Buyer that the Services shall materially conform to the description in Seller's Documentation. If Buyer gives Seller prompt written notice of a breach of this warranty within 90 days of Seller's completion of the provided Services at issue (the "Service Warranty Period"), Seller shall, at its sole option and as Buyer's sole remedy, correct or re-perform any errors found by Seller in the provision of the Services or refund the purchase price therefor. If Seller determines that any claimed breach is not, in fact, covered by this warranty, Buyer shall pay Seller its then customary charges for any correction or re-performance made by Seller. Services corrected or re-performed during the

Service Warranty Period shall be in warranty for ninety (90) days from the date of correction.

c. Seller's warranty obligations are conditioned on Buyer (a) operating and maintaining the Equipment in accordance with Seller's instructions or any other owner's or operator's manual delivered to Buyer in connection with the delivery of the Equipment, (b) not making any unauthorized repairs or alterations, and (c) not being in default of any payment obligation to Seller. Seller's warranty does not cover damage caused by chemical action or abrasive material, misuse or improper installation (unless installed by Seller). Seller's warranty does not cover repairs necessitated by ordinary wear and tear resulting from operation of the Equipment. Seller shall have no liability for breach of warranty if

(a) Buyer operates the Equipment after the alleged breach of warranty occurs or (b) any person other than Seller performs any repairs on the Equipment. If the Equipment must be returned to Seller's shop for repairs, Buyer shall pay any costs to ship all or any part of the Equipment to or from Seller's shop, as well as any costs of removal or reinstallation. To the extent that Seller has relied upon any specifications, information, representations regarding operating conditions or other data or information supplied by Buyer, or on Buyer's behalf, to Seller in the selection or design of the Equipment and/or provision of the Services and the preparation of the Seller's Documentation, and in the event that actual operating other conditions differ from those represented by Buyer or its agent and relied upon by Seller, any warranties or other provisions contained herein which are affected by such conditions shall be null and void. THE WARRANTIES SET FORTH IN THIS SECTION ARE SELLER'S SOLE AND EXCLUSIVE WARRANTIES, ARE SUBJECT TO THE LIMITATIONS IN SECTION 10 BELOW, AND ALL WARRANTIES WHICH EXCEED OR DIFFER FROM THE WARRANTIES IN THIS SECTION 7 ARE DISCLAIMED BY SELLER. SELLER MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The exclusive warranty provided in this Section 7 shall not be deemed to have failed its essential purpose so long as Seller is willing and able to carry out the terms of this exclusive warranty.

8. Force Majeure. Neither Seller nor Buyer shall have any liability for any breach, delays in performance or for non-performance (except for breach of payment obligations) caused by extreme weather or other act of God, strike or other labor shortage or disturbance, fire, accident, war or civil disturbance, delays in transportation, failure of normal sources of supply, labor trouble, labor disputes, labor unrest, unavailability of materials or components, unavoidable casualties, explosion, compliance with governmental requests, laws, regulations, orders or actions, delays in receipt of duty-free or tax-free materials at port clearances, acts of government or any other cause beyond such party's reasonable control. In the event of such delay, the time of Seller's performance shall be extended by a period of time reasonably necessary to overcome the effect of the delay.

9. Cancellation. Buyer may cancel or suspend its order for any or all of the Equipment or any related Services covered by the Agreement only upon Seller's written consent or pursuant to Seller's Documentation (if applicable). If Buyer cancels or suspends its order for any reason other than Seller's material breach of the Agreement, Buyer shall promptly pay Seller for work performed prior to cancellation or suspension and any other direct costs incurred by Seller as a result of such cancellation or suspension. If the Equipment is unique or specially manufactured, and as a result thereof, will have no or significantly diminished resale value if not purchased by Buyer, then Seller may seek specific performance of the Agreement or maintain an action for the difference in the full value of the Equipment and the diminished resale value, if any.

10. LIMITATION OF REMEDY AND LIABILITY. THE REMEDIES OF BUYER EXPRESSLY SET FORTH IN THESE TERMS ARE EXCLUSIVE AND NO OTHER REMEDY SHALL BE AVAILABLE TO BUYER OR ANY OTHER PERSONS OR ENTITIES, WHETHER BY DIRECT ACTION, FOR CONTRIBUTION OR INDEMNITY OR OTHERWISE. NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, SELLER SHALL NOT BE LIABLE TO BUYER OR ANY OTHER PARTY FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS, REVENUE OR USE, AND SELLER'S TOTAL AGGREGATE LIABILITY TO BUYER OR ANY



OTHER PARTY RELATING TO OR RESULTING FROM THE SALE, PROVISION OR USE OF THE EQUIPMENT OR SERVICES SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE SPECIFIC EQUIPMENT OR SERVICES PROVIDED BY SELLER GIVING RISE TO THE CLAIM OR CAUSE OF ACTION. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY.

11. Retained Equipment. In the event that Buyer sends any equipment to JCI to request a quote and the quote is not accepted in writing by Buyer, then Buyer shall make arrangements to pick up their equipment as soon as possible. If any equipment is left on Supplier's premises for more than 6 months such equipment shall automatically become the property of Supplier, and Supplier shall have the right to do anything is decides with respect to such equipment, including, but not limited to, sell such equipment, repair and sell such equipment, scrap the equipment or retain the equipment.

12. Miscellaneous. If these terms are issued in connection with a government contract, they shall be deemed to include those federal acquisition regulations that are required by law to be included. These terms, together with Seller's Documentation, comprise the complete and exclusive statement of the agreement between the parties (the "Agreement") and supersede any terms contained in Buyer's documents, unless separately signed by Seller. No part of the Agreement may be changed, cancelled or waived except by a written document signed by Seller and Buyer. No waiver by either party of a breach or default hereunder will be deemed a waiver by such party of a subsequent breach or default of a like or similar nature. No course of dealing or performance, usage of trade or failure to enforce any term shall be used to modify the Agreement. If any of these terms is unenforceable, such term shall be limited only to the extent necessary to make it enforceable, and all other terms shall remain in full force and effect. Buyer may not assign or permit any other transfer of the Agreement or any of Buyer's rights or obligations hereunder (including transfers by operation of law such as a change in control of the ownership of Buyer or a merger) without Seller's prior written consent.

Any assignment in violation of this Agreement shall be void and of no effect. The Agreement shall be governed by the laws of the State of Missouri without regard to its conflict of laws provisions. Any cause of action or other resolution of any dispute hereunder shall be subject to the exclusive jurisdiction of any state or federal court located in Jackson County, Missouri. If Seller prevails in any action against Buyer to enforce the terms of the Agreement, Buyer will reimburse Seller for all of Seller's reasonable attorneys' fees and other costs and expenses incurred in connection with such action. The remedies expressly provided for in these conditions shall be in addition to any other remedies that Seller may have under the Uniform Commercial Code or other applicable law. These terms are for the exclusive benefit of Seller and Buyer. These terms are not intended for the benefit of any other person and no other person shall have any rights hereunder.



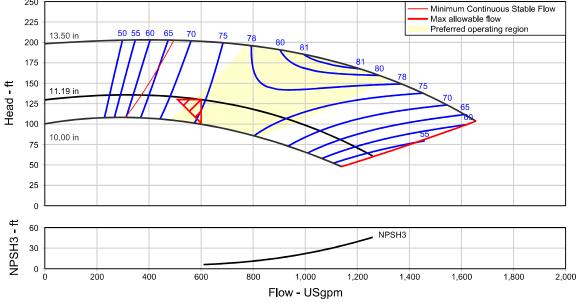
Customer : JCI INDUSTRIES Project name : Bel Aire

# **Pump Performance Datasheet**

Encompass 3.0 - 23.4.1

Item Number / Tags: 00Service:Quantity: 1Quote number: 24	)2 10216	Size Stages Based on curve number Basic model number Date last saved	: 3804 - 4x5x13.5 : 1 : 3800_4x5x13.5_1800 : 4x5x13.5 3800 1800-CL : 16 Feb 2024 1:21 PM	
Operating Conditions		Liquid		
Flow, rated Differential head / pressure, rated (requested Differential head / pressure, rated (actual) Suction pressure, rated / max NPSH available, rated Site Supply Frequency	: 600.0 USgpm ) : 130.0 ft : 131.1 ft : 0.00 / 0.00 psi.g : Ample : 60 Hz	Temperature, max	: 68.00 deg F	
Performance Speed criteria Speed, rated Impeller diameter, rated	: Synchronous : 1800 rpm : 11.19 in	Viscosity, rated / max Vapor pressure, rated Material	: 1.00071.000 SG : 1.00 cP : 0.34 psi.a	
Impeller diameter, maximum Impeller diameter, minimum	: 13.50 in : 10.00 in	Material selected Pressure Data	: Standard	
Efficiency PEI (CL) NPSH required / margin required nq (imp. eye flow) / S (imp. eye flow) Minimum Continuous Stable Flow	: 74.58 % : 0.94 : - / 0.00 ft : 24 / 90 Metric units : 370.7 USgpm	Maximum allowable suction Hydrostatic test pressure	oressure : 175.0 psi.g : 125.0 psi.g	
Head, maximum, rated diameter Head rise to shutoff Flow, best eff. point Flow ratio, rated / BEP Diameter ratio (rated / max) Head ratio (rated dia / max dia) Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] Selection status	: 135.8 ft : -0.24 % : 773.0 USgpm : 77.62 % : 82.87 % : 64.54 %	Driver sizing specification Margin over specification Service factor Power, hydraulic Power, rated Power, maximum, rated dian	: Max Power : 0.00 % : 1.00 : 19.69 hp : 26.40 hp teter : 36.82 hp	
	conditions       Liquid         ead / pressure, rated (requested)       130.0 ft       Additional liquid description       :         ead / pressure, rated (actual)       :131.1 ft       Solids diameter, max       :0.00 in         sure, rated / max       :0.00 / 0.00 psi.g       Solids diameter limit       :0.34 in         ble, rated       :Ample       Solids concentration, by volume       :0.00 %         Frequency       :60 Hz       Temperature, max       :68.00 deg F         Fluid density, rated / max       :1.000 / 1.000 SG         'i 1800 rpm       Vapor pressure, rated       :0.34 psi.a         neter, rated       :11.19 in       Material         meter, maximum       :13.50 in       Material         i 1800 rpm       Vapor pressure, rated       :0.34 psi.a         i 100 o in       Pressure Data       :0.94         i 100 0 in       Maximum allowable working pressure       :175.0 psi.g         i 100 v) / S (mp. eye flow)       :24 / 90 Metric units       Hydrostatic test pressure       :125.0 psi.g         i 100 vir S (mp. eye flow)       :24 / 90 Metric units       Hydrostatic test pressure       :125.0 psi.g         i 100 vir S (mp. eye flow)       :24 / 90 Metric units       Maximum allowable suction pressure       :125.0 psi.g <t< td=""></t<>			



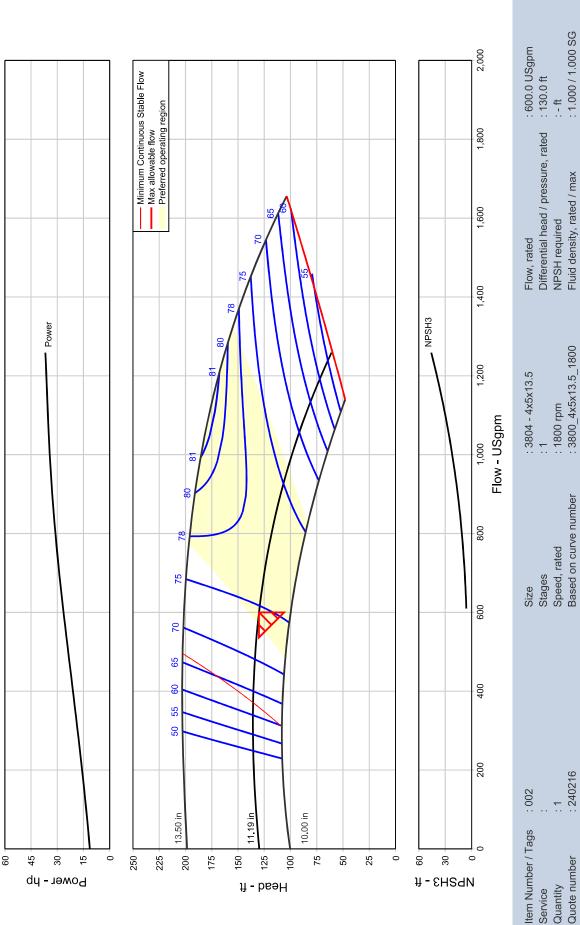






Customer : JCI Project name : Bel





PENTAIR

PHONE: 816-525-3320 · FAX: 816-525-5881

JCI INDUSTRIES INC 1191 SE HAMBLIN RD · LEES SUMMIT, MO 64081

Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] : 1.00 / 1.00 / 1.00 / 1.00

: 1.00 cP

Viscosity

4x5x13.5 3800 1800-CL

Basic model number

: 16 Feb 2024 1:21 PM

Date last saved

Efficiency

PEI (CL)

74.58 %

: 0.94

26.40 hp

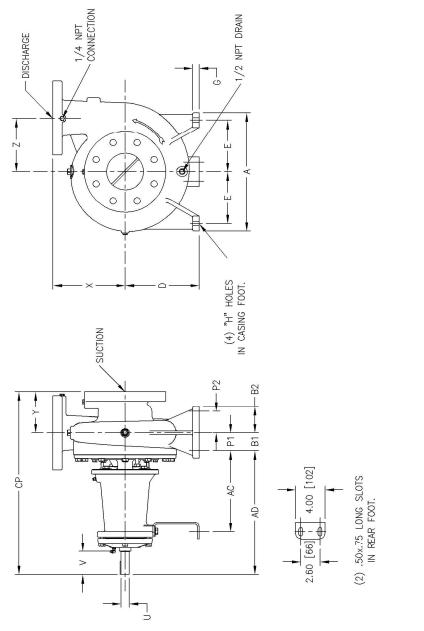
Power, rated

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F
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0

# Encompass 3.0 - 23.4.1

# **General Arrangement Drawing**

Series         3800         Uquid Type         Water           Model         3844         Discharge Size         4.00in           Size         4x5r3.5         Suction Size         5.00in           Flow         600.0 USgm         73.50 in         175.0 psi           Flow         600.0 USgm         680.0 deg F         175.0 psi           Read         130.0 ft         Pressure Rating         680.0 deg F         175.0 psi           Read         130.0 ft         Pressure Rating         680.0 deg F         175.0 psi           Read         Read         Pater         Commercino Sucr0 b         175.0 psi           Read         Randard blue paint         Commercino Sucr0 b         175.0 psi         175.0 psi           Pump Material         Standard blue paint         Coupling Type         Castinon Sucr0 b         1796.21           Standard blue paint         Scaing Or Ring         Scaing Or Ring         Coupling Type         Castinon Sucr0 b           Standard blue paint         Standard blue paint         Scaing Or Ring         Scain Or Ring         Castinon Sucr0 b           Standard blue paint         Standard blue paint         Scaing Or Ring         Scain Or Ring         Castinon Sucr0 b           Standard blue paint         Standaror Rin		Pu	Pump Data	
3804         Discharge Size           4×5x13.5         Suction Size           600.0 USppm         Casing Size           130.0 ft         Pressure Rating           130.0 ft         Standard blue paint           2 standard blue paint         Connection SucDis           14 standard blue paint         Connection SucDis           14 standard blue paint         Connection SucDis           15 standard blue paint         Connection SucDis           16 standard blue paint         Connection SucDis           17 standard blue paint         Connection SucDis           18 standard blue paint         Sealing           19 standard blue paint         Sealing           19 standard blue paint         Interse steel           10 steel         Standard blue paint           10 steel         Sealing           10 steel         Steel           10 steel         Steel           10 stend         Inter	Series	3800	Liquid Type	Water
4x5x13.5         Suction Size           130.01         Sexue Rating           130.01         Pessue Rating           130.01         Result Size           130.01         Standard blue paint           131.01         Scaling Size           131.01         Seal Plate           141.1         Seal Plate           141.1         Seal Plate           141.1         Seal Plate           141.1         Standard Size           141.1         Standard Size           141.1         Seal Plate           141.1         Seal Plate           142.1         Seating Size           143.1	Model	3804	Discharge Size	4.00 in
600.0 USpm     Casing Size       130.0 ft     Pressure Rating       130.0 ft     Pressure Rating       130.0 ft     Pressure Rating       130.0 ft     Standard blue paint     Connection Suc/Dis       Paint     Standard blue paint     Connection Suc/Dis       Paint     Standard blue paint     Connection Suc/Dis       Alterial     Standard blue paint     Construction       Alterial     Standard blue paint     Seal Plate       Alter     Seal Material     Incelle       Standard blue paint     Seal Material     Incelle       Alter     Standard blue paint     Incelle       Alter     Seal Material     Incelle       Alter     Seal Material     Incelle       Alter     Standard blue paint     Incelle       Alter     Standard blue paint     Incelle       Alter     Standard blue     Incelte	Size	4x5x13.5	Suction Size	5.00 in
130.0 ft       Fressure Rating         1800 RPM       Temperature Rating         1800 RPM       Connection Suc/Dis         Paint       Standard blue paint       Coupling Type         Alaterial       Standess steel       Seal Plate         Stainless steel       Seal Plate       Seal Plate         Ductile Iron ASTM A536       Power Frame Body       Power Frame Body         Stainless steel       Stainless steel       Seal Plate         Stainless steel       AlSI S1045       Seal Material         Prescue       Stainless steel, AlSI 316       Casing "O" Ring         Vater       Stainless steel, AlSI 316       Casing "O" Ring         Vater       Stainless steel, AlSI 316       Casing "O" Ring         Steel AlSI S101b       Alater       Flushing Lines         Alater       360.0 lb       Alater         Alater       360.0 lb       Alater         Alater       360.0 lb       Alater         Alater       Jouot ltease       Jouot ltease         Alater       Jou	Flow	600.0 USgpm	Casing Size	13.50 in
Image: matrix     Image: matrix     Image: matrix       n     Right     Connection Suc/Dis       raint     Standard blue paint     Coupling Types       Alaterial     Standard blue paint     Seal Plate       Ductile Iron ASTM A536     Power Frame Body       Stainless steel     316     Seal Material       Prese     Stainless steel     Alsi TQ445       Stainless steel     Stainless steel     Seal Material       Prese     Stainless steel     Steel       Prese     Cast iron, ASTM A48     Impeller Wear Ring       Prese     Cast iron, ASTM A48     Impeller Wear Ring       Prese     Site     Site     Site       Prese     Site     Site     Flushing Lines       Prese     Site     Site     Site       Prese     Site     Site     Site       Prese     Site     Site     Site       Prese <td>Head</td> <td>130.0 ft</td> <td>Pressure Rating</td> <td>175.0 psi</td>	Head	130.0 ft	Pressure Rating	175.0 psi
n       Right       Connection Suc/Dis         Paint       Standard blue paint       Coupling Type         Atterial       Stainless steel       Seal Plate         Atterial       Stainless steel       Seal Plate         Ductile Iron ASTM A536       Power Frame Body         Stainless steel       Stainless steel       Seal Plate         Stainless steel       AlSI TO455       Seal Material         Stainless steel       Stainless steel       Seal Plate         Stainless steel       Stainless steel       Stainless         Stainless steel       Stainless       Stainless         Stainless       Stainless       Stainless         Stainless       Stainless       Stainl	RPM	1800 RPM	Temperature Rating	68.00 deg F
Standard blue paint     Coupling Type       Alterial     Standard blue paint     Construction       Alterial     Stainless steel     Seal Plate       Alterial     Stainless steel     Seal Plate       Ductile Iron ASTM A536     Power Frame Body     Seal Material       Steel. AISI C1045     Seal Material     Easing "O" Ring       Precise     Stainless steel, AISI 316     Casing "O" Ring       Precise     Stainless steel, AISI 316     Casing "O" Ring       Vipe     Vater     Seal Material       Vipe     Vater     Plushing Lines       Vipe     Vater     Flushing Lines       Vipe     Vater     Flushing Lines       Vipe     Vater     Flushing Lines       Vipe     Vater     Flushing Lines       Vipe     Vater     Vater	Rotation	Right	Connection Suc/Dis	Flanged 125#/125#
Fump Materials of Construction         Idaterial       Stainless steel       Seal Plate         Idaterial       Stainless steel       Seal Naterial         Idaterial       Impeller Wear Ring       Impeller Wear Ring         Vater       Vater       Flushing Lines         Idaterial       Impeller Wear Ring       Impeller Wear Ring         Idaterial       Impeller Wear Ring       Impeller Wear Ring         Idaterial       Impeller Mear       Impeller Wear Ring         Idaterial       Impeller Mear       Impeller Mear Ring         Idaterial       Impeller Mear       Impeller Mear         Idaterial       Impeller Mear       Impeller Mear         Idaterial       Impeller Mear       Impeller Mear         Idater       Impeller Mear       Impelle	Pump Paint	Standard blue paint	Coupling Type	None
Pump Materials of Construction         Alderial       Stainless steel       Seal Plate         Ductitie Iron ASTM A536       Power Frame Body       Sealing         Stainless steel, 316       Sealing       Sealing         Steel, AISI C1045       Sealing       Sealing         Intervent       Stainless steel, 316       Casing "O" Ring         Intervent       Stainless steel, 316       Casing "O" Ring         Intervent       Casing "O" Ring       Intervent Ring         Vise       Water       Flushing Lines         Aldo       335.0 lb       Intervent Ring         Intervention: Grease       Stating Lines       Intervent Ring         Intervention: Grease       Aldo       Intervention         Intervention: Grease       Joute Intervention       Intervention         Intervention       Bel Aire       Joute Item #				
Addition     Stainless steel     Seal Plate       Ductitle Iron ASTM A536     Power Frame Body       Stainless steel, 316     Seal Material       Steel, AISI C1045     Seal Material       Steel, AISI C1045     Seal Material       Reve     Stainless steel, AISI 316     Casing "O" Ring       Impollence     Mater     Impollence       Impollence     335.0 lb     Flushing Lines       Impollence     335.0 lb     Impollence       Impollence     Juote Item #		Pump Materia	als of Construction	
Image: Steel Ion ASTM A536         Power Frame Body           Stainless steel, 316         Sealing         Sealing           Steel. AISI C10455         Sealing         Sealing           Ieeve         Stainless steel, AISI 316         Casing "O" Ring           Vipe         Vater         Flushing Lines           Ype         Vater         Flushing Lines           And Ion         360.0 lb         Impeller Wear Ring           Inal Options         And Ion         Impeller Wear Ring	Pump Material	Stainless steel		Cast Iron ASTM A48
Stainless steel, 316       Sealing       Sealing         Steel, AISI C1045       Seal Material         Eevee       Stainless steel, AISI 316       Casing "O" Ring         Vipe       Vater       Seal Material         Vipe       Vater       Impeller Wear Ring         Vipe       Water       Flushing Lines         360.0 lb       360.0 lb       Impeller Wear Ring         Inal Options       135.0 lb       Impeller Wear Ring         Inal Options       1350.0 lb       Impeller Weights         Inal Options       135.0 lb       Impeller Weights         Inal Options       10.0 lb       Impeller Weights         Inal Options       Inal Options       Impeller Weights         Indote Alteriation: Grease       Jouote Information         Indote Information       Jouote Information	Casing	Ductile Iron ASTM A536		Cast Iron ASTM A48
Steel, AISI C1045         Seal Material           leeve         Stainers steel, AISI 316         Casing "O" Ring           racket         Cast iron, ASTM A48         Impeller Wear Ring           Ype         Vater         Flushing Lines           Ype         35:0 lb         Flushing Lines           Also of lob         36:0 lb         Also of lob           Also of lob         35:0 lb         Also of lob           Also of lob         36:0 lb         Also of lob           Also of lob         Also of lob         Also of lob           Also of lob         Also of lob         Also of lob           Also of lob         Also of lob         Also of lob           Also of lob         Also of lob         Also of lob           Also of lob         Also of lob         Also of lob           Also of lob         Also of lob         Also of lob           Also of lob         Also of lob         Also of lob           Also of lob         Also of lob         Also of lob           Also of lob         Also of lob         Also of lob	I	Stainless steel, 316	Sealing	Type 21
Ieeve         Stainless steel, AISI 316         Casing "O" Ring         -           Indecket         Cast iron, ASTM A48         Impeller Wear Ring         -           Vpe         Water         Flushing Lines         Noi           Vpe         35.0 lb         -         -           35.0 lb         35.0 lb         -         -           Inual Options         35.0 lb         -         -           Inual Options         -         -         -           Inubrication: Grease         -         -         -           Inubrication: Grease         -         -         -           Inubrication: Grease         -	Shaft	Steel, AISI C1045	Seal Material	Carbon Ceramic
Irracket         Cast iron, ASTM A48         Impeller Wear Ring         No           Ype         Water         Flushing Liness         No           335.0 lb         335.0 lb         Impeller Weights         No           360.0 lb         355.0 lb         Impeller Meights         Impeller Meights           Indi Options         360.0 lb         Impeller Meights         Impeller Meights           Indi Options         Ampeller Meights         Impeller Meights         Impeller Meights           Indi Options         Ampeller Meights         Impeller Meights         Impeller Meights           Indi Options         Ampeller Meights         Impeller Meights         Impeller Meights           Indication: Grease         Ampeller Meights         Impeller Meights         Impeller Meights           Indication: Grease         Ampeller Meights         Impeller Meights         Impeller Meights           Indication: Grease         Junote Item #         Impeller Meights         Impeller Meights	Shaft Sleeve	Stainless steel, AISI 316		I
Ype         Water         Flushing Lines         No           1         335.0 lb         335.0 lb         1           360.0 lb         360.0 lb         1         1           Inal Options         360.0 lb         1         1           Inal Options         360.0 lb         1         1           Inal Options         0         0         1           Inal Options         0         0         1           Inal Options         0         1         1           Inal Options         0         0         1           Inal Options         0         0         1           Inal Options         0         0         1	Motor Bracket	Cast iron, ASTM A48	Impeller Wear Ring	-
Estimated Weights       Estimated Weights       360.0 lb     360.0 lb       nal Options     360.0 lb       Iubrication: Grease     Annol Options	Liquid Type	Water	Flushing Lines	None
Estimated Weights       a35.0 lb       a36.0 lb     360.0 lb       nal Options     Iubrication: Grease       ILubrication: Grease     Counce Information       Indication: Grease     Autor Information       Indicatinal     Autor Information       Induce Information     Autor Information       Induce Information     Autor Information				
335.0 lb       aid Options       nal Options       I.Lubrication: Grease       I.Lubrication: Grease       Counce A       Joint Information       Image: State		Estima	ated Weights	
360.0 lb       nal Options       I Lubrication: Grease       I Lubrication: Grease       I Clinburge       I Lubrication: Grease       I Clinburge	Pump	335.0 lb		
Lubrication: Grease Lubrication: Grease <b>Delete:</b> <b>Outrope:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delete:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b> <b>Delet:</b>	Total	360.0 lb		
Ind Options Indication: Grease Indication: Gr				
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20	5
Key (LG)	1.75
Key (SQ)	0.25
>	3.13
D	1.13
СР	24.84
AC AD	16.63
AC	10.78
A	16.00
ш	7.00
т	0.50
υ	0.88
٥	11.00
B2	3.75
B1	3.25
P2	2.75
P1 P2	2.25
z	8.56
7	6.00
×	10.00

# NOTES:

All dimensions are in inches Dimensions shown may vary ± 3/8" (10mm) due to normal manufacturing tolerances. Bases are designed to be completely filled with grout.

# MEM INDUSTRIAL, LLC. P.O. BOX 783098 WICHITA, KS 67278 316-944-4400

# ADDRESS

MARTY MCGEE CITY OF BELAIRE 4103 N. WOODLAWN BELAIRE, KANSAS 67220 SEDGWICK SHIP TO MARTY MCGEE CITY OF BELAIRE 4103 N. WOODLAWN BELAIRE, KANSAS 67220 SEDGWICK

# Estimate 14601

DATE 05/06/2024

# LOCATION WATER TREATMENT

DATE	ACTIVITY	DESCRIPTION		QTY	RATE	AMOUNT
05/06/2024	D40P2D	40HP 1800 324T	ODP	3	2,311.20	6,933.60
05/06/2024	D15P3D	15HP 1200 284T	ODP	1	1,890.40	1,890.40
05/06/2024	L150 X 1 7/8	L JAW COUPLE	۹	2	40.87	81.74
05/06/2024	L150N	Nitrile Element		1	22.19	22.19
05/06/2024	L225N	L225 BUNA INSE	RT	6	87.60	525.60
05/06/2024	L225N	L225 BUNA INSE	RT	3	43.11	129.33
05/06/2024	PARTS SALE	PRATT CYCLINE	DERS	4	6,200.00	24,800.00
05/06/2024	PARTS SALE	X84091 AUROR	A 3804 PUMPS	4	7,568.75	30,275.00
05/06/2024	LASER ALIGNMENT	LASER ALIGNM	ENT	4	500.00	2,000.00
05/06/2024	FIELD LABOR - REG. TIME	REMOVE OLD P ELECTRIC MOTO CYLINDERS, CC OUT TO FAB NE INSTALLS, INST PUMPS, ELECTI CYLINDERS ANI NOTE: PRIVE DO INCLUDE FREIG UNFORSEEN IS PIPIMG OR CON MOUNTING BAS	1	23,000.00	23,000.00	
Contact ME ap@memks	M INDUSTRIAL, LLC. to .com	pay.	SUBTOTAL TAX			89,657.86 0.00
			TOTAL		\$8	9,657.86

Payment is due upon terms stated above. Invoices >\$10,000 will be required to pay 50% at the time of order.

Delinquent amounts are subject to a finance charge of 1.5% per month.

Anything left longer than 30 days will be charged a storage fee of \$25 per week.

Accepted By

Accepted Date

Payment is due upon terms stated above. Invoices >\$10,000 will be required to pay 50% at the time of order. Delinquent amounts are subject to a finance charge of 1.5% per month. Anything left longer than 30 days will be charged a storage fee of \$25 per week.