



Department of Management Services
Purchasing Division
241 West South Street
Kalamazoo, MI 49007-4796
Phone: 269.337.8020
Fax: 269.337.8500
www.kalamazoocity.org
purchasing@kalamazoocity.org

PRE-BID MEETING
Tuesday, February 21, 2023 at 10:00 a.m.
Kalamazoo Water Reclamation Plant -1415 Harrison Street, Kalamazoo, MI 49007
Conference Room A

INVITATION FOR BIDS (IFB)

The City of Kalamazoo, Michigan is soliciting sealed bids for:

Project Name: Station 25 Booster Pump 2 Rebuild

Bid Reference #: 93691-001.0

IFB ISSUE DATE: February 10, 2023

BID DUE/OPENING DATE: March 14, 2023 at 3:00 p.m. Local Time

Facsimile Bids Will Not Be Accepted.

MAILING ADDRESS & INSTRUCTIONS

Mail to:

Purchasing Division
241 W. South Street
Kalamazoo, MI 49007

Questions about this IFB should be directed to:

Department Contact: **James Baker, PE,**
Public Services Director at (269) 337-8768 or
bakerj@kalamazoocity.org

Include on the Envelope the Project Name and Bid Reference Number. All Envelopes Must Be Sealed.

You are invited to submit a bid for this project. Specifications, terms, conditions and instructions for submitting bids are contained herein. This Invitation for Bids with all pages, documents and attachments contained herein, or subsequently added to and made a part hereof, submitted as a fully and properly executed bid shall constitute the contract between the City and the successful bidder when approved and accepted on behalf of the City by an authorized official or agent of the City. Please review the bid document as soon as possible and note the **DEADLINE FOR QUESTIONS** in the Instructions to Bidders.

All bidders shall complete and return the Bid and Award page(s) and submit all information requested herein in order for a bid to be responsive. The bid document shall be returned in its entirety, in a properly identified and sealed envelope to the Purchasing Division at the above address. **BIDS MUST BE RECEIVED BEFORE THE DUE DATE - LATE BIDS WILL NOT BE CONSIDERED.** The City reserves the right to postpone the bid opening for its own convenience.

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STATEMENT OF NO BID

NOTE: If you DO NOT intend to bid on this commodity or service, please complete and return this form immediately. Your response will assist us in evaluating all responses for this important project and to improve our bid solicitation process.

The Purchasing Division of the City of Kalamazoo wishes to keep its bidders list file up-to-date. If, for any reason you cannot supply the commodity/service noted in this bid solicitation, this form must be completed and returned to remain on the particular bid list for future projects of this type.

If you do not respond to this inquiry within the time set for the bid opening date and time noted, we will assume that you can no longer supply this commodity/service, and your name will be removed from this bid list.

- _____ Specifications too "tight", i.e. geared toward one brand or manufacturer only (explain below).
- _____ Specifications are unclear (explain below).
- _____ We are unable to meet specifications.
- _____ Insufficient time to respond to the Invitation for Bid.
- _____ Our schedule would not permit us to perform.
- _____ We are unable to meet bond requirements.
- _____ We are unable to meet insurance requirements.
- _____ We do not offer this product or service.
- _____ Remove us from your bidders list for this commodity or service.
- _____ Other (specify below).

REMARKS: _____

SIGNED: _____ NAME: _____
(Type or Print)

TITLE: _____ DATE: _____

FIRM NAME: _____
(if any)

ADDRESS: _____
(Street address) (City) (State) (Zip)

PHONE: _____ FAX: _____

EMAIL: _____

**SECTION I
INSTRUCTIONS TO BIDDERS**

1. **EXAMINATION OF BID DOCUMENT**-Before submitting a bid, bidders shall carefully examine the specifications and shall fully inform themselves as to all existing conditions and limitations. The bidder shall indicate in the bid the sum to cover the cost of all items included on the bid form.
2. **PREPARATION OF BID**-The bid shall be legibly prepared in ink or typed. If a unit price or extension already entered by the bidder on the Bid and Award form is to be altered, it shall be crossed out and the new unit price or extension entered above or below and initialed by the bidder with ink. The bid shall be legally signed, and the complete address of the bidder given thereon.

All bids shall be tightly sealed in an envelope plainly marked SEALED BID and identified by project name, bid opening date and time. Bids opened by mistake, due to improper identification, will be so documented and resealed. The Purchasing Division will maintain and guarantee confidentiality of the contents until the specified opening date and time. Bids submitted by Fax machine will not be accepted.

3. **EXPLANATION TO BIDDERS**-Any binding explanation desired by a bidder regarding the meaning or interpretation of the Invitation for Bid (IFB) and attachments must be requested in writing, **at least 5 business days before the bid opening** so a reply may reach all prospective bidders before the submission of bids. Any information given to a prospective bidder concerning the IFB will be furnished to all prospective bidders as an amendment or addendum to the IFB if such information would be prejudicial to uninformed bidders. Receipt of amendments or addenda by a bidder must be acknowledged in the bid by attachment, or by letter or fax received before the time set for opening of bids. Oral explanation or instructions given prior to the opening will not be binding.
4. **CASH DISCOUNTS**-Discount offered for payment of less than thirty (30) days will not be considered in evaluating bids for award. Offered discounts of less than thirty (30) days will be taken if payment is made within the discount period, even though not considered in evaluation of the bid.
5. **WITHDRAWAL OF BIDS**-Bids may be withdrawn in person by a bidder or authorized representative, provided their identity is made known and a receipt is signed for the bid, but only if the withdrawal is made prior to the exact time set for receipt of bid. No bid may be withdrawn for at least ninety (90) days after bid opening.
6. **ALTERNATE BIDS**-bidders are cautioned that any alternate bid, unless specifically requested or any changes, insertions or omissions to the terms and conditions, specifications or any other requirement of this IFB may be considered non-responsive, and at the option of the City, result in rejection of the alternate bid.
7. **LATE BIDS**-Any bid received at the office designated herein after the exact time specified for receipt will not be considered. (Note: The City reserves the right to consider bids that have been determined by the City to be received late due to mishandling by the City after receipt of the bid and no award has been made.)
8. **UNIT PRICES**-If there is a discrepancy between unit prices and their extension, unit prices shall prevail.

SECTION II
BID AND AWARD

The undersigned having become thoroughly familiar with all of the bid/contract documents incorporated herein, the project site and the location conditions affecting the work, hereby proposes to perform everything required to be performed in strict conformity with the requirements of these documents, and to provide and furnish all the equipment, labor and materials necessary to complete in a professional manner the furnishing and installing of all of the following, meeting or exceeding the specifications as set forth herein for the prices as stated below.

STATION 25 BOOSTER PUMP 2 REBUILD

BASE BID:

Station No.25 Booster Pump No. 2 **Rebuild** Lump Sum Bid: \$ _____
Total time duration from issuance of Notice to Proceed to completed delivered rebuilt pump, installed and operational including all lead times for all materials and components will not exceed _____ Weeks.

BID ALTERNATE

Station No.25 Booster Pump No. 2 **New Complete Pump Assembly** Lump Sum Bid: \$ _____
Total time duration from issuance of Notice to Proceed to shop drawing submittal will not exceed:
_____ Weeks.

Total time duration from issuance of shop drawing approval to completed delivered new pump, installed and operational including all lead times for all materials and components will not exceed:
_____ Weeks.

New Complete Pump Assembly Total Weeks: _____

Bidder shall provide all of the information as requested herein with their bid. **Failure to do so and/or failure to provide post-bid requested information may be cause for rejecting the bid as non-responsive.**

Bidder/Contractor has examined and carefully studied the bidding documents and attachments, and acknowledges receipt of the following addenda:

Addendum No: _____

Dated: _____

The City encourages the use of local labor in fulfilling the requirements of this contract.

This contract shall be governed by the laws of the State of Michigan.

By my signature below, I certify that the firm bidding on this contract, when making hiring decisions, does not use a past criminal conviction as a bar to or preclude a person with a criminal conviction from being considered for employment with the bidding firm unless otherwise precluded by federal or state law. I further certify that I have read and agree to be bound by the provisions of the City’s Non-Discrimination Clause found in Appendix A as updated by City Ordinance 1856.

Signed: _____ Name: _____

Title: _____

CITY OF KALAMAZOO EX-OFFENDER POLICY CHECKLIST

As part of the City’s commitment to reducing unacceptable poverty, encouraging rehabilitation, reducing recidivism and strengthening families in Kalamazoo, the City has updated its Purchasing Policy to ensure that firms with whom the City does business share in this commitment by utilizing hiring practices that do not unfairly deny people with arrest and conviction records gainful employment. *(Important: This requirement also extends to any subcontractors the bidder intends to use to fulfill the contract for goods or services being sought from the City.)*

Part I: Proof that the bidder does not inquire about an individual’s past arrest or criminal history on the bidders employment application form

- Attach a copy of the current application for employment being used by the bidder

Part II: Certification that the bidder does not use an individual’s past arrest or criminal history to unlawfully discriminate against them by checking *one or more* of the following:

- That pursuant to federal or state law bidder is precluded from hiring persons with certain criminal records from holding particular positions or engaging in certain occupations by providing a cite to the applicable statute or regulation; if checking this box, provide a citation to the applicable statute or rule upon which the bidder is relying:_____
- That bidder conducts criminal history background checks only as necessary, and only after making a conditional offer of employment; that any withdrawal of an offer of employment to an individual because of a past criminal history is job-related and consistent with business necessity after the individual has been provided an individualized assessment opportunity to review and challenge or supplement the history of past criminal conduct being relied upon by the bidder;
- That the use by bidder of criminal history background checks complies with the U.S. Equal Employment Opportunity Commission’s Enforcement Guidance on the Consideration of Arrest and Conviction Records in Employment Decisions and that the bidder has not had a determination rendered against it in past 7 years that it discriminated against a person through the use of an individual’s arrest or criminal history

I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE.

Date

Signature

Printed Name

Position

CITY OF KALAMAZOO
LOCAL PREFERENCE POLICY AND CERTIFICATION

The lowest responsive Kalamazoo County bidder whose bid is not low but falls within 2% of the lowest responsive bid is afforded the opportunity to become the successful bidder if it agrees to reduce its bid to match the lowest responsive bid. The City of Kalamazoo is the sole determiner whether a bidder is responsible, qualifies as a Kalamazoo County bidder, and if its bid is responsive to the City’s specifications, terms and conditions.

If the lowest Kalamazoo County bidder chooses not to match the lowest bid, the next lowest responsive Kalamazoo County bidder whose bid falls within 2% of the lowest bid, is given the opportunity to match the lowest responsive bid.

To qualify as a Kalamazoo County bidder, the bidder must meet both the following criteria:

1. Have a physical presence in Kalamazoo County by maintaining a permanent office, factory or other facility in Kalamazoo County with employees working in Kalamazoo County.
2. Have paid real or personal property taxes related to said business to the City of Kalamazoo, County of Kalamazoo or other municipal corporation within Kalamazoo County in the previous tax year, except that a non-profit entity need not meet this requirement.

This local preference policy applies only to purchases for materials, supplies, capital outlay, and services for maintenance, repair or operation of City facilities that are over \$25,000. If more than 50% of the contract is sub-contracted to firms located outside of Kalamazoo County that bid does not qualify for the local preference policy outlined above. The local preference policy will not apply if prohibited by law. The Purchasing Agent has the authority to finally determine if the bidder qualifies as a Kalamazoo County bidder as set forth herein. The Purchasing Agent may take into account the permanency of the business in Kalamazoo, and whether the business appears to be claiming to be a Kalamazoo County business solely or primarily to qualify as a Kalamazoo County business under this Resolution, and any other material factors.

CERTIFICATION

If you qualify as a Kalamazoo County bidder and wish to be considered for the local preference provisions as provided above please certify that fact by providing the information requested below and attesting to its accuracy.

Firm Name: _____

Street Address of Business: _____

City, State, and Zip Code: _____

Number of employees working in Kalamazoo County: _____

Name the city or township to which business real and/or personal property taxes are paid or provide non-profit status: _____

The above information is accurate:

Signature: _____ Date: _____

Title: _____

REFERENCE QUESTIONNAIRE

Please answer the following questions completely.

1. Firm name: _____
2. Established: Year _____ Number of Employees: _____
3. Type of organization:
 - a. Individual: _____
 - b. Partnership: _____
 - c. Corporation: _____
 - d. Other: _____
4. Former firm name(s) if any, and year(s) in business:

5. Include at least 3 references of contracts for similar work performed over the last five (5) years. Include: owner, contact person and phone number and description of work performed.
 - 5.1 Company Name: _____
Address: _____
Phone: _____
Contact: _____
Type of work or contract: _____
 - 5.2 Company Name: _____
Address: _____
Phone: _____
Contact: _____
Type of work or contract: _____
 - 5.3 Company Name: _____
Address: _____
Phone: _____
Contact: _____
Type of work or contract: _____

I hereby certify that all of the information provided is true and answered to the best of my ability.

Signed: _____ Name: _____
(type or print)

Title: _____ Date: _____

I hereby state that all of the information I have provided is true, accurate and complete. I hereby state that I have the authority to submit this bid which will become a binding contract if accepted by the City of Kalamazoo. I hereby state that I have not communicated with nor otherwise colluded with any other bidder, nor have I made any agreement with nor offered/accepted anything of value to/from an official or employee of the City of Kalamazoo that would tend to destroy or hinder free competition.

The firm's identification information provided will be used by the City for purchase orders, payment and other contractual purposes. If the contractual relationship is with, or the payment made to, another firm please provide a complete explanation on your letterhead and attach to your bid. Please provide for accounts payable purposes:

Tax Identification Number (Federal ID): _____

Remittance Address: _____

Financial Contact Name: _____ Financial Contact Phone Number: _____

Financial Contact Email Address: _____

I hereby state that I have read, understand and agree to be bound by all terms and conditions of this bid document.

SIGNED: _____ NAME: _____
(Type or Print)

TITLE: _____ DATE: _____

FIRM NAME: _____
(if any)

ADDRESS: _____
(Street address) (City) (State) (Zip)

PHONE: _____ FAX: _____

EMAIL ADDRESS: _____

FOR CITY USE ONLY - DO NOT WRITE BELOW

NOTE: This blanket addendum is for informational purposes only and does not need to be acknowledged by bidders in their submission.

COVID-19 ADDENDUM #2

January 1, 2022

TO: ALL Prospective Bidders
PROJECT: ALL Upcoming Projects

The purpose of this addendum is to clarify and/or modify the sealed bid delivery and bid opening process for all upcoming projects. All work affected is subject to all applicable terms and conditions of the Bidding and Contract Documents.

1. UPDATE TO SEALED BID DELIVERY AND BID OPENING POLICY:

Effective immediately and continuing until further notice, the City of Kalamazoo will return to IN-PERSON bid openings following City Hall guidelines, including Mask Mandate.

BIDS MUST BE RECEIVED BEFORE THE DUE DATE AND TIME – LATE BIDS WILL NOT BE CONSIDERED.

Bidders can submit sealed bids in one of the following ways:

- **Mail your bid**, to be received before the bid due date and time indicated in the bid document, to the City of Kalamazoo at the following address:

City of Kalamazoo
Purchasing Division
241 West South Street
Kalamazoo, MI 49007

- **Deliver your bid to the Treasurer’s Office Payment Drop Box** located in the northwest corner of City Hall before the bid due date and time indicated in the bid document.
- **Deliver your bid to City Hall In Person before** the bid due date and time indicated in the bid document.

All bids shall be tightly sealed in an envelope plainly marked SEALED BID and identified by project name, bid opening date and time. Bids opened by mistake, due to improper identification, will be so documented and resealed. The Purchasing Division will maintain and guarantee confidentiality of the contents until the specified opening date and time. Bids submitted by fax machine or email will not be accepted.

The Purchasing Division will post bid tabulations to the City of Kalamazoo website within 24 hours after the bid opening date and time at: <https://www.kalamazoocity.org/bidopportunities>.

Questions regarding this sealed bid delivery and bid opening policy change related to the COVID-19 virus should be directed to the City of Kalamazoo at (269) 337-8020.

Sincerely,



Michelle Emig
Purchasing Division Manager

**SECTION III
CITY OF KALAMAZOO
INDEMNITY AND INSURANCE**

Contractor, or any of their subcontractors, shall not commence work under this contract until they have obtained the insurance required under this paragraph, and shall keep such insurance in force during the entire life of this contract. All coverage shall be with insurance companies licensed and admitted to do business in the State of Michigan and acceptable to the City of Kalamazoo within ten (10) days of the Notice of Award. The requirements below should not be interpreted to limit the liability of the Contractor. All deductibles and SIR's are the responsibility of the Contractor.

The Contractor shall procure and maintain the following insurance coverage:

Workers' Compensation Insurance including Employers' Liability Coverage, in accordance with all applicable statutes of the State of Michigan.

Commercial General Liability Insurance on an "Occurrence Basis" with limits of liability not less than \$1,000,000 per occurrence and aggregate. Coverage shall include the following extensions: (A) Contractual Liability; (B) Products and Completed Operations; (C) Independent Contractors Coverage; (D) Broad Form General Liability Extensions or equivalent, if not already included and (E) XCU coverage if the nature of the contract requires XC or U work.

Automobile Liability in accordance with all applicable statutes of the State of Michigan, with limits of liability not less than \$1,000,000 per occurrence, combined single limit for Bodily Injury, and Property Damage. Coverage shall include all owned vehicles, all non-owned vehicles, and all hired vehicles.

Additional Insured: Commercial General Liability and Automobile Liability, as described above, shall include an endorsement stating that the following shall be *Additional Insureds*: The City of Kalamazoo, all elected and appointed officials, all employees and volunteers, all boards, commissions, and/or authorities and board members, including employees and volunteers thereof. It is understood and agreed that by naming the City of Kalamazoo as additional insured, coverage afforded is considered to be primary and any other insurance the City of Kalamazoo may have in effect shall be considered secondary and/or excess.

To the fullest extent permitted by law the Contractor agrees to pay on behalf of, indemnify, and hold harmless the City of Kalamazoo, its elected and appointed officials, and employees against any claims, demands, suits, or loss, including all costs connected therewith, and for any damages which may be asserted, claimed, or recovered against or from the City of Kalamazoo, by reason of personal injury, including bodily injury or death and/or property damage, including loss of use thereof, caused in whole or part by any negligent act or omission by the Contractor, its employees, agents, or officers which arises out of, or is in any way connected or associated with, this contract.

Cancellation Notice: All policies, as described above, shall include an endorsement stating that it is understood and agreed that thirty (30) days, or ten (10) days for non-payment of premium, Advance Written Notice of Cancellation, Non-Renewal, Reduction, and/or Material Change shall be sent to: City of Kalamazoo, Purchasing Division, 241 W. South Street, Kalamazoo, MI 49007.

Proof of Insurance Coverage: The Contractor shall provide the City of Kalamazoo at the time that the contracts are returned by him/her for execution, or within 10 days of Notice of Award, whichever is earlier, a Certificate of Insurance as well as the required endorsements. In lieu of required endorsements, if applicable, a copy of the policy sections where coverage is provided for additional insured and cancellation notice would be acceptable. Copies or certified copies of all policies mentioned above shall be furnished, if so requested.

INDEMNITY AND INSURANCE

Continued

If any of the above coverages expire during the term of this contract, the Contractor shall deliver renewal certificates and/or policies to City of Kalamazoo at least ten (10) days prior to the expiration date.

Scope of Coverage: The above requirements and conditions shall not be interpreted to limit the liability of the Contractor under this Contract, but shall be interpreted to provide the greatest benefit to the City and its officers and employees. The above listed coverages shall protect the Contractor, its employees, agents, representatives and subcontractors against claims arising out of the work performed. It shall be the Contractor's responsibility to provide similar insurance for each subcontractor or to provide evidence that each subcontractor carries such insurance in like amount prior to the time such subcontractor proceeds to perform under the contract.

SECTION IV
SPECIAL REQUIREMENTS

1. BID BOND/GUARANTEE

The bid must be accompanied by a bid bond which shall not be less than five (5%) percent of the total amount of the bid. No bid will be considered unless it is accompanied by the required guarantee. The bid guarantee shall ensure the execution of the bid and award, and the furnishing of a performance bond and a labor and material bond (A and B below) by the successful bidder. (Contractors Note: A cashier's or certified check in lieu of a bid bond is **NOT** acceptable.)

A. PERFORMANCE BOND

A performance bond shall be furnished in the full amount of the contract ensuring the City of faithful performance of all the provisions of the contract, and the satisfactory performance of any equipment required hereunder. The bond shall also ensure the City against defective workmanship and/or materials.

B. LABOR AND MATERIAL (PAYMENT) BOND

A labor and material (payment) bond shall be furnished for the period covered by the contract, in the full amount of the contract for the protection of labor and material suppliers and sub-contractors.

Bonds shall be secured by a guaranty or a surety company listed in the latest issue of the U.S. Treasury, circular 570, and licensed to do business in the State of Michigan, and written in favor of the City of Kalamazoo. The amount of such bonds shall be within the maximum amount specified for such company in said circular 570. The bonds shall be accompanied by a power of attorney showing authority of the bonding agent to sign such bonds on behalf of the guaranty or surety company. The cost of the bonds shall be borne by the Contractor.

Failure of the Contractor to supply the required bonds within ten (10) days after Notice of Award, or within such extended period as the Purchasing Agent may agree to, shall constitute a default and the City of Kalamazoo may either award this contract to the next lowest bidder or re-advertise for bids and may charge against the Contractor for the difference between the amount of the bid and the amount for which a contract for the work is subsequently executed, irrespective of whether the amount thus due exceeds the amount of the bid bond. If a more favorable bid is received by re-advertising, the defaulting bidder shall have no claim against the City of Kalamazoo for a refund.

2. WAIVERS OF LIEN

Upon completion of all work and request for final payment, the Contractor shall furnish a 100% waiver of lien from each supplier and sub-contractor covering all items of the work. Failure to supply waivers of lien for the entire job upon completion and final payment request will be considered grounds for withholding final payment.

3. SUBCONTRACTORS

- A. Contractors shall state on the Bid and Award page any and all subcontractors to be associated with their bid, including the type work to be performed. Any and all subcontractors shall be bound by all of the terms, conditions and requirements of the contract; however, the prime contractor shall be responsible for the performance of the total work requirements.
- B. The Contractor shall cooperate with the City of Kalamazoo in meeting its commitments and goals with regard to maximum utilization of minority and women business enterprise, and shall use its best efforts to ensure that minority and women business enterprises have maximum practicable opportunity to compete for subcontract work under this agreement.

SECTION V
SPECIAL CONDITIONS

1. INTENT

It is the intent of these plans and specifications to provide for a general contractor who shall provide all labor, materials, tools and equipment necessary to perform in a professional manner for the **Station 25 Booster Pump 2 Rebuild** project described in the specifications and bid document.

2. GENERAL INFORMATION

This specification describes the general requirements for repairs and refurbishing one (1) Goulds 8" Discharge Split Case High Service Pump. The pump model is a Goulds 3405, Serial No. 249B665-1-2 rated for 2250 GPM at 210 Feet TDH at 1770 RPM. The pump is located at the City of Kalamazoo Station No.25 located on Campbell Lake in Comstock Township (near H Avenue and North 28th Street). Contractor to include all materials, labor, and any other fees into the lump sum bid.

The City of Kalamazoo will provide use of the overhead crane at Station No.25 and will provide access for Contractor load out at Station No. 25. Contractor is responsible for prepping, rigging components, rigging and loading of the pump. Contractor is responsible to take pump and pump components loaded and rigged by the contractor to place on Contractor transport vehicle.

Contractor will be responsible for uncoupling of the motor from the pump. Disconnecting all bolts required for removal of the pump from the pump skid. Rigging of the pump to be removed, and removing the pump from Station No. 25. All tools and rigging required to remove pump, as well as unrigging pump when placed on the Contractor transport vehicle is the Contractor's responsibility. All safety equipment and procedures to complete the above tasks are the Contractor's responsibility.

3. SCOPE OF WORK

The scope of work for this project shall include, but not be limited to:

- 3.1. Decouple, remove Booster Pump No.2 from pump setting and pump skid, rig, lift and place in Contractor supplied transport vehicle.
- 3.2. Safely transport to Contractor facilities.
- 3.3. Disassemble pump completely including upper and lower case, shaft, bearing assemblies, impeller, clean and bead blast all components and inspect the pump.
- 3.4. Replace all gaskets and seals with new ones. Existing seals shall be replaced with Buna Rubber. Replacement gaskets shall be a compressed, asbestos-free sheet material containing high-strength mineral fibers and nitrile rubber, Durlon® 7910 explicitly designed to meet NSF/ANSI 61 certification requirements. Asbestos gaskets shall not be used nor reused.
- 3.5. Recondition shaft and verify total run out is within .002" and provide report to the City.
- 3.6. Remove and install new wear ring, case and wear ring, impeller. Material shall be certified lead free.
- 3.7. Remove and install new impeller to OEM specifications. Material shall be stainless steel.
- 3.8. Remove and install new stainless steel seal tubing (x2).
- 3.9. Pump case internals to interior coated with NSF 61 approved Themec epoxy white.

SCOPE OF WORK (cont.)

- 3.10. Pump case external coated with NSF 61 approved Tnemec epoxy Safety Blue.
- 3.11. Replace with the following new pump components meeting OEM specifications or deviated as approved by the City:
- Impeller, stainless steel
 - Seal tubing, stainless steel
 - Shaft sleeve, certified lead free
 - Lantern ring, polyether ether ketone (PEEK)
 - Stuffing box packing, graphite
 - Stuffing box gland, steel
 - Grease reliefs, bolt
 - Grease fittings
 - Bearings
 - Bushings, certified lead free
 - Wear ring, case, certified lead free
 - Wear ring, impeller, certified lead free
 - Grease seal, coupler inner, coupler outer, synthetic rubber
 - Impeller key
 - Packing gland, graphite
 - Shaft collar, steel
 - Set screw
 - O-Ring, impeller, BUNA Rubber
 - O-Ring, shaft, PEEK
 - Hex Head Cap Screws, Pedestal to Case, stainless steel
 - Hex Head Cap Screws, Case Upper to Lower, stainless steel
- 3.12. Deliver pump to Station No.25 rig pump and move pump and motor and set in place. Install pump, shim as needed, ensure all pump components are in line with drive line using 3-dimensional laser alignment, and put into service.

4. TESTING

Provide City with a balance report, and shaft run out report. Pump and shaft must meet OEM specification on balance and shaft run out. Provide City with impeller wear ring and volute case ring hardness report. Inspection of the pump may reveal other work items critical to refurbishing of the pump. Such repair items shall be forwarded to the owner with a cost estimate and, if approved, such items will be considered a normal change order for this work. A flow test will be required in service at the City of Kalamazoo Station No.25 with a suction header pressure of 0 to 5 PSI operating against the Gull Road Tower at overflow elevation and at fill elevation with Booster No.2 operating alone and while operating in parallel with Booster No.3. The in-station flow and pressure measuring devices will be used.

5. START-UP AND WARRANTY

The repair contractor shall be on-site to check out the installation and supervise the start-up of the rebuilt pump. The rebuild shall be warranted for a period of one (1) year parts and labor after the start-up of the pump. The contractor shall repair or correct at their expense all or any defects to the pump for that time period. This warranty shall include all trouble shooting, travel costs, and cost for removing and reinstalling the pump and motor, if necessary.

6. TEMPORARY UTILITIES

- 6.1 Temporary or construction water will NOT be available on the sites. The Contractor must provide for drinking water.
- 6.2 Temporary toilets: To be supplied by the Contractor as may be necessary.

7. PROGRESS SCHEDULE

- 7.1 Work shall be completed within the number of weeks specified on BID AND AWARD, Page 2 after receipt of notification by Contractor of Notice to Proceed.
- 7.2 Work of a similar nature may be added to this contract if agreed to by the City and the Contractor. In the event that work is added, the progress schedule for the existing work will remain unchanged. Any contract time added for additional work will be applied to that additional work only and cannot be added to items in the original contract. Any work done on the items in the original contract past the number of working days stated herein will be subject to liquidated damages regardless of any work that may be added at a later date.
- 7.3 The Contractor will be required to meet with the Public Services representatives to work out a detailed progress schedule. The schedule for this meeting will be within two weeks after contract award has been made.
- 7.4 The named sub-contractor(s) for all items shall also be present at the scheduled meeting and they will be required to sign the Progress Schedule to indicate their approval of the scheduled dates of work set forth in the Progress Schedule.
- 7.5 The Progress Schedule shall include, as a minimum, the starting and completion dates for major items as well as the final project completion date specified in the bid document. The Progress Schedule shall be coordinated with all aspects of the work occurring at the site.
- 7.6 Failure on the part of the Contractor to carry out the provisions of the Progress Schedule as established may be considered sufficient cause to prevent bidding future projects until a satisfactory rate of progress is again established.
- 7.7 The starting date and the contract time to the completion date for this project may be adjusted by Public Services without imposing liquidated damages upon the receipt of satisfactory documented evidence that unforeseen delayed delivery of critical materials will prevent the orderly prosecution of the work.

8. LIQUIDATED DAMAGES

Liquidated damages, if applicable, shall be \$500.00 a day regardless of contract size.

9. WORK HOURS

All work shall be done between the hours of 7 am to 7 pm (Monday – Saturday). Work done outside of these times will be at the discretion of the Project Manager.

No work shall be done on Sunday, unless otherwise approved by the Project Manager in writing.

The Contractor shall conduct their work in such a manner that no excavations are left open overnight. If this is not possible, the Contractor shall provide and install a temporary fence to protect the excavation, at the Contractor's expense.

10. **PRE-BID MEETING**

All prospective contractors and subcontractors are invited to attend a Pre-Bid Meeting with representatives from the City of Kalamazoo on **Tuesday, February 21, 2023 at 10:00 a.m. local time** at the Kalamazoo Water Reclamation Plant, 1415 Harrison Street, Kalamazoo, MI 49007 (Conference Room A).

SECTION VI
GENERAL CONDITIONS

1. PROJECT MANAGER’S STATUS

The City Engineer (Engineer) or his/her duly authorized representative shall be the City’s Project Manager and shall have the duties and responsibilities as provided in the contract.

The Project Manager shall have the authority to reject any work or materials which do not conform to the contract and to decide questions or interpretations which may arise from the contract documents.

The Contractor shall immediately report to the Project Manager any questionable or obvious error or omission which may be apparent in the contract documents and shall not proceed with work until the Project Manager has resolved the error or omission.

2. CONSTRUCTION SCHEDULE AND COORDINATION

2.1 The Contractor shall supply the City with an agreeable construction schedule before commencing work on this contract. This schedule shall detail beginning and completion dates for each major component of the project.

2.2 The Contractor shall coordinate and cooperate with all other contractors who may be working on the site in order to allow for the orderly progress of work being done.

2.3 The Contractor is required to keep the Project Manager fully informed of any proposed work which will tend to interfere with the existing operations at the site.

2.4 The Contractor shall schedule all work to accommodate the City's schedule. In the event Contractor's schedule falls on weekends, nights or overtime work is required, no additional compensation will be allowed. All work shall be part of this contract without regard to when it is done.

2.5 The Contractor shall coordinate with other construction projects and contractors adjacent to the location of this project.

3. PROTECTION OF WORK

The Contractor shall maintain adequate protection of all his/her work from damage and shall protect all public and private abutting property from injury or loss arising in connection with this contract.

4. PROTECTION OF PROPERTY

4.1 The Contractor shall confine his/her equipment and operations to those areas of the work site necessary for the completion of the work, or as authorized by the Project Manager. The Contractor shall protect and preserve from damage any facilities, utilities or features including trees, shrubs and turf which are not required to be disturbed by the requirements of the work.

4.2 The Contractor shall be responsible to determine the location of and to protect from damage any utilities or other improvements.

5. REMOVAL OF RUBBISH

The Contractor shall daily remove all rubbish and accumulated materials due to his/her construction.

6. UNDERGROUND UTILITIES

For protection of underground utilities, the Contractor shall dial Miss Dig at 1-800-482-7171 a minimum of 72 hours prior to excavating in the vicinity of utility lines. All “Miss Dig” participating members will thus be routinely notified. This does not relieve the Contractor of notifying utility owners who may not be part of the “Miss Dig” alert system.

7. SITE SECURITY

The Contractor shall be responsible for job site security of all materials and tools provided by him/her and no claim for loss or damage will be considered by the City.

8. SITE ACCESS

The City will provide fair and reasonable access to the job site within the working schedules of both parties.

9. MATERIALS INSPECTION AND RESPONSIBILITY

9.1 The Project Manager shall have the right to inspect any materials to be used in carrying out the terms of the contract.

9.2 The City does not assume any responsibility for the contracted quality and standard of all materials, equipment, components or completed work furnished under this contract.

9.3 Any materials, equipment, components or completed work which does not comply with contract specifications or state codes may be rejected by the City, and shall be replaced by the Contractor at no cost to the City.

9.4 Any materials, equipment or components rejected shall be removed within a reasonable period of time from the premises of the City at the entire expense of the Contractor after written notice has been mailed by the City to the Contractor that such materials, equipment or components have been rejected.

10. GUARANTEE

The Contractor shall guarantee all of his/her work for a period of one (1) year following the date of final acceptance of the completed work and shall repair, replace or make good any materials or work which fail to function or perform or be found defective, without cost to the city.

11. SAFETY

The Contractor shall comply with all applicable OSHA and MIOSHA regulations.

12. BASIS FOR PAYMENT

Payment shall be based on the bid unit price for each work item and the approved constructed quantity for that work item. Due to potential differences in conditions between the plans and the field, final as built quantities may be different than contained in the bid document. The City does not guarantee quantities and will pay only for "as built" quantities approved by the Project Manager or his representative. Quantities in excess of those approved shall be at the Contractor's own expense, the City will not be responsible for any excess quantities not approved. Should an item of work have to be redone, such as replacing new walk because the Contractor failed to adequately protect the wet concrete from rain or pedestrian or vehicular damage, such work shall be replaced at the Contractor's expense. Should changes in design result in the Project Manager directing the removal and reinstallation of already completed work prior to final completion and acceptance of the project, such removal and installation shall be paid for based on as-bid unit prices and the quantities removed and installed.

13. PAY ESTIMATES

The Contractor shall be responsible for the generation of invoices for payment. Payment will be generated by the City based upon an approved invoice. Recommended frequency of payment is monthly, however, frequency of payment will not exceed bi-weekly.

14. PAYMENT TO CONTRACTOR

The Project Manager will be responsible for approving all measured quantities of work. Once measured quantities are approved, the Contractor shall submit a pay invoice to the City of Kalamazoo Attn: Accounts Payable at 241 West South Street, Kalamazoo MI, 49007. The contractor is required to meet with the Project Manager to verify final constructed quantities within 60 days of project completion. In the event of a disagreement the Project Manager's measured quantities shall be considered final.

15. INSPECTION OF WORK

The City may maintain inspectors on the job who shall at all times have access to work.

16. INSPECTION OF SITE

Each bidder shall visit the site of the proposed work and fully acquaint himself/herself with the existing conditions relating to construction and labor, and shall fully inform himself/herself as to the facilities involved and the difficulties and restrictions attending the performance of this contract. The bidder shall thoroughly examine and become familiar with the drawings, specifications and all other bid/contract documents. The Contractor, by the execution of this contract, shall in no way be relieved of any obligation under it due to his failure to receive or examine any form or legal instrument, or to visit the site and acquaint himself/herself with the conditions there existing. No allowance shall be made subsequently in this connection in behalf of the Contractor for any negligence of his/her part. For inspection call the Public Services Department, Water Resources Division.

17. LAYING OUT WORK

Before submitting a bid the Contractor shall verify all measurements and shall be responsible for the correctness of same. No extra charge or compensation will be allowed on account of differences between actual dimensions and the measurements indicated on the drawings. Any difference that may be found shall be submitted to the City Engineer for consideration before proceeding.

18. **SUPERVISION**

The Contractor shall employ an experienced superintendent or foreperson on the job at all times.

19. **TARDINESS**

Construction delays resulting from tardiness on the part of the Contractor will be reviewed by the City in the event of any request for contract extension by the Contractor.

20. **ADDITIONS**

Any modification to the contract shall be subject to prior approval by the Purchasing Agent. City Commission approval may also be required.

Prices for additional work required are not requested in the itemized listing contained herein for the base project. Should additional work be authorized, compensation shall be made on the basis of price or prices to be mutually agreed upon. Such additional work shall not begin until a Change Order has been approved

21. **INSPECTION AND TESTING**

The Contractor shall give the Project Manager timely notice of readiness of the work for all required inspections, tests or approvals, and shall cooperate with inspections and testing personnel to facilitate required inspections or tests.

22. **QUESTIONS**

Bidders shall address questions regarding the specifications to James Baker, PE, Public Services Director at (269) 337-8768 or bakerj@kalamazoocity.org. (This does not relieve the requirements of Page 1, Item 3.) Questions regarding terms, conditions and other related bid requirements may be addressed to Craig Hull, Buyer, at (269) 337-8444.

SECTION VII
TERMS AND CONDITIONS

1. AWARD OF CONTRACT

- A. This contract will be awarded to that responsible bidder whose bid, conforming to this solicitation, will be most advantageous to the City, price and other factors considered. The City reserves the right to accept or reject any or all bids and waive informalities and minor irregularities in bids received. Other factors include, as an example but not limited to, delivery time, conformance to specifications, incidental costs such as demurrage and deposits, etc.

Notification of award will be in writing by the Purchasing Agent. Upon notification, the Contractor shall submit to the Purchasing Division all required insurance certificates (if required) and such other documentation as may be requested or required hereunder. Upon their receipt and subsequent approval by the City, the Purchasing Agent will forward to the Contractor a written **NOTICE TO PROCEED**. Work shall **NOT** be started until such **NOTICE TO PROCEED** is received by the Contractor.

- B. Unilateral changes in bid prices by the bidder shall not be allowed. However, the City, at its sole option, reserves the right to negotiate with bidders in the event of, but not limited to:
- 1) No bids received;
 - 2) A single bid being received; or
 - 3) Prices quoted or bid are over budget and/or unreasonable.

2. COMPLETE CONTRACT

This bid document together with its addenda, amendments, attachments and modifications, when executed, becomes the complete contract between the parties hereto, and no verbal or oral promises or representations made in conjunction with the negotiation of this contract shall be binding on either party.

3. SUBCONTRACTORS - NON ASSIGNMENT

Bidders shall state in writing any and all sub-contractors to be associated with this bid, including the type of work to be performed. The Contractor shall cooperate with the City of Kalamazoo in meeting its commitments and goals with regard to maximum utilization of minority and women-owned business enterprises.

The Contractor hereby agrees and understands that the contract resulting from this solicitation shall not be transferred, assigned or sublet without prior written consent of the City of Kalamazoo.

4. TAXES

The City of Kalamazoo is exempt from all federal excise tax and state sales and use taxes.

5. INVOICING

All original invoice(s) will be sent to the Financial Services Division, 241 W. South Street, Kalamazoo, MI 49007 or via email at apinvoice@kalamazoocity.org. The Finance Division processes payments after receipt of an original invoice from the Contractor and approval by the department. The City of Kalamazoo’s policy is to pay invoice(s) within 30 days from the receipt of the original invoice, if the services or supplies are satisfactory and the proper paperwork and procedures have been followed. **In order to guarantee payment to the vendor on a timely basis, the vendor needs to receive a purchase order number before supplying the City of Kalamazoo with goods or services.** All original, and copies of original invoice(s), will clearly state which purchase order they are being billed against.

The City of Kalamazoo is a government municipality and therefore is tax exempt from all sales tax.

The vendor is responsible for supplying the Finance Division with a copy of their W9 if they are providing a service to the City of Kalamazoo.

6. PAYMENTS

Unless otherwise specified by the City in this contract, the Contractor will be paid in not more than thirty (30) days after receipt of a properly executed invoice, the sum stipulated herein for supplies delivered and accepted, or service rendered and accepted. Payments are processed by the Management Services Financial Services Division after receipt of an original invoice from the Contractor and approval by the department.

7. CHANGES AND/OR CONTRACT MODIFICATIONS

The City reserves the right to increase or decrease quantities, service or requirements, or make any changes necessary at any time during the term of this contract, or any negotiated extension thereof. Price adjustments due to any of the foregoing changes shall be negotiated and mutually agreed upon by the Contractor and the City.

Changes of any nature after contract award which reflect an increase or decrease in requirements or costs shall not be permitted without prior approval by the Purchasing Agent. City Commission approval may also be required.

ANY CHANGES PERFORMED IN ADVANCE OF PURCHASING AGENT APPROVAL MAY BE SUBJECT TO DENIAL AND NON-PAYMENT.

8. LAWS, ORDINANCES AND REGULATIONS

The Contractor shall keep himself/herself fully informed of all local, state and federal laws, ordinances and regulations in any manner affecting those engaged or employed in the work and the equipment used. Contractor and/or employees shall, at all times, serve and comply with such laws, ordinances and regulations.

Any permits, licenses, certificates or fees required for the performance of the work shall be obtained and paid for by the Contractor.

This contract shall be governed by the laws of the State of Michigan.

9. RIGHT TO AUDIT

The City or its designee shall be entitled to audit all of the Contractor's records, and shall be allowed to interview any of the Contractor's employees, throughout the term of this contract and for a period of three years after final payment or longer if required by law to the extent necessary to adequately permit evaluation and verification of:

- A. Contractor compliance with contract requirements,
- B. Compliance with provisions for pricing change orders, invoices or claims submitted by the Contractor or any of his payees.

10. HOLD HARMLESS

If the negligent acts or omissions of the Contractor/Vendor or its employees, agents or officers, cause injury to person or property, the Contractor/Vendor shall indemnify and save harmless the City of Kalamazoo, its agents, officials, and employees against all claims, judgments, losses, damages, demands, and payments of any kind to persons or property to the extent occasioned from any claim or demand arising therefrom.

11. DEFAULT

The City may at any time, by written notice to the Contractor, terminate this contract and the Contractor's right to proceed with the work, for just cause, which shall include, but is not limited to the following:

- A. Failure to provide insurance and bonds (when called for), in the exact amounts and within the time specified or any extension thereof.
- B. Failure to make delivery of the supplies, or to perform the services within the time specified herein, or any extension thereof.
- C. The unauthorized substitution of articles for those bid and specified.
- D. Failure to make progress if such failure endangers performance of the contract in accordance with its terms.
- E. Failure to perform in compliance with any provision of the contract.
- F. **Standard of Performance** - Contractor guarantees the performance of the commodities, goods or services rendered herein in accordance with the accepted standards of the industry or industries concerned herein, except that if this specification calls for higher standards, then such higher standards shall be provided.

Upon notice by the City of Contractor's failure to comply with such standards or to otherwise be in default of this contract in any manner following the Notice to Proceed, Contractor shall immediately remedy said defective performance in a manner acceptable to the City. Should Contractor fail to immediately correct said defective performance, said failure shall be considered a breach of this contract and grounds for termination of the same by the City.

In the event of any breach of this contract by Contractor, Contractor shall pay any cost to the City caused by said breach including but not limited to the replacement cost of such goods or services with another Contractor.

The City reserves the right to withhold any or all payments until any defects in performance have been satisfactorily corrected.

DEFAULT (cont.)

In the event the Contractor is in breach of this contract in any manner, and such breach has not been satisfactorily corrected, the City may bar the Contractor from being awarded any future City contracts.

- G. All remedies available to the City herein are cumulative and the election of one remedy by the City shall not be a waiver of any other remedy available to the City either listed in this contract or available by operation of law.

12. TERMINATION OF CONTRACT

The City may, at any time and without cause, suspend the work of this contract for a period of not more than ninety days after providing notice in writing to the Contractor. The Contractor shall be allowed an adjustment in the contract price or an extension of the contract times, or both, directly attributable to the suspension if Contractor makes an approved claim.

The City may, without prejudice to any other right or remedy of the City, and with or without cause, terminate the contract by giving seven days written notice to the Contractor. In such case the Contractor shall be paid, without duplication, for the following items:

- A. Completed and acceptable work executed in accordance with the contract documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such work;
- B. Expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials or equipment as required by the contract documents in connection with uncompleted work, plus fair and reasonable sums for overhead and profit on such expenses;
- C. All documented claims, costs, losses and damages incurred in settlement of terminated contracts with Subcontractors, Suppliers and others; and
- D. Reasonable expenses directly attributable to termination.

The Contractor shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

13. INDEPENDENT CONTRACTOR

At all times, the Contractor, any of his/her employees, or his/her sub-contractors and their subsequent employees shall be considered independent contractors and not as City employees. The Contractor shall exercise all supervisory control and general control over all workers' duties, payment of wages to Contractor's employees and the right to hire, fire and discipline their employees and workers. As an independent contractor, payment under this contract shall not be subject to any withholding for tax, social security or other purposes, nor shall the Contractor or his/her employees be entitled to sick leave, pension benefit, vacation, medical benefits, life insurance or workers' unemployment compensation or the like.

14. MEETINGS

The Contractor and/or Project Supervisor shall be available to meet with the Department Head or Project Manager at a mutually agreeable time to discuss problems, issues or concerns relative to the contract. Either party may call a meeting at any time. When such a request for a meeting is made, the meeting date shall, in no case exceed five (5) working days after the request; and, if in the sole opinion of the Department Head, the severity of the circumstance warrants, no more than one (1) working day.

15. INSPECTION OF WORK SITE

Before submitting bids or quotes for work, the Contractor shall be responsible for examining the work site and satisfying himself/herself as to the existing conditions under which he/she will be obligated to operate, or that in any way affects the work under this contract. No allowance shall be made subsequently, in behalf of the Contractor, for any negligence on his/her part.

16. CONTRACT PERIOD, EXTENSIONS, CANCELLATION

- A. The contract shall be in effect for the term stated in the specifications.
- B. The City may opt to extend this contract upon mutual agreement of both parties. The number of extensions shall be limited to that stated in the specifications.
- C. The City may, from time to time, find it necessary to continue this contract on a month-to-month basis only, not to exceed a six (6) month period. Such month-to-month extended periods shall be by mutual agreement of both parties, with all provisions of the original contract or any extension thereof remaining in full force and effect.
- D. All contracts, extensions and cost increases are subject to availability of funds and the approval of the City Commission (if required).
- E. The City reserves the right to cancel the contract due to non-appropriation of funds by the City with thirty (30) days written notice.
- F. Either party may terminate the contract (or any extension thereof) without cause at the end of any twelve (12) month term by giving written notice of such intent at least 60 days prior to the end of said twelve (12) month term.
- G. All notices are in effect commencing with the date of mailing. Written notices may be delivered in person or sent by First Class mail; faxed or emailed to the last known address.
- H. If cancellation is for default of contract due to non-performance, the contract may be canceled at any time (see Item 11, DEFAULT)

APPENDIX A
NON-DISCRIMINATION CLAUSE FOR ALL CITY OF KALAMAZOO CONTRACTS

The Contractor agrees to comply with the Federal Civil Rights Act of 1964 as amended; the Federal Civil Rights Act of 1991 as amended; the Americans With Disabilities Act of 1990 as amended; the Elliott-Larson Civil Rights Act, Act. No. 453, Public Act of 1976 as amended; the Michigan Handicappers Civil Rights Act, Act No. 220, Public Act of 1976 as amended, City Ordinance 1856 and all other applicable Federal and State laws. The Contractor agrees as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, sex, age, height, weight, marital status, physical or mental disability, family status, sexual orientation or gender identity that is unrelated to the individual's ability to perform the duties of the particular job or position. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment advertising, layoff or termination; rates of pay or other forms of compensations; and selection for training, including apprenticeship.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, sex, age, height, weight, marital status, physical or mental disability family status, sexual orientation or gender identity that is unrelated to the individual's ability to perform the duties of the particular job or position.
3. If requested by the City, the Contractor shall furnish information regarding practices, policies and programs and employment statistics for the Contractor and subcontractors. The Contractor and subcontractors shall permit access to all books, records and accounts regarding employment practices by agents and representatives of the City duly charged with investigative duties to assure compliance with this clause.
4. Breach of the covenants herein may be regarded as a material breach of the contract or purchasing agreement as provided in the Elliott-Larsen Civil Rights Act and City Ordinance 1856.
5. The Contractor will include or incorporate by reference the provisions of the foregoing paragraphs 1 through 4 in every subcontract or purchase order unless exempted by the rules, regulations or orders of the Michigan Civil Rights Commission* and will provide in every subcontract or purchase order that said provision will be binding upon each subcontractor or seller.
6. The Contractor will not preclude a person with a criminal conviction from being considered for employment unless otherwise precluded by federal or state law. (for contracts over \$25,000)

The Elliott-Larson Civil Rights Act, Sec. 202 of Act. No. 453 of 1976 reads in part as follows:

Sec. 202. (1) An employer shall not:

- (a) Fail or refuse to hire, or recruit, or discharge or otherwise discriminate against an individual with respect to employment, compensation, or a term condition or privilege of employment because of religion, race, color, national origin, age, sex, height, weight or marital status.
- (b) Limit, segregate or classify an employee or applicant for employment in a way which deprives or tends to deprive the employee or applicant of an employment opportunity or otherwise adversely affects the status of an employee or applicant because of religion, race, color, national origin, age, sex, height, weight or marital status.
- (c) Segregate, classify or otherwise discriminate against a person on the basis of sex with respect to a term, condition or privilege of employment, including a benefit plan or system.

* Except for contracts entered into with parties employing less than three employees.



SPECIFICATIONS

- **8” Discharge Goulds Booster Pump No.2
Pump Rebuild Specification**
 - **East Side High System Curves**
 - **E.E. Norman – Booster Station Curves**

STATION 25 BOOSTER PUMP 2 REBUILD

Bid Reference #: 93691-001.0

Refer Correspondence To The
 Goulds Branch Office or Agent
 Where your order was placed.

TO:
 City of Kalamazoo, Michigan
 Auditor
 241 W. South Street
 Kalamazoo, MI 49007

SUBJECT: YOUR P.O. NO. 31857

DATE 11/3/78

OUR BRANCH ORDER HA101099

THE FOLLOWING TECHNICAL DATA IS SUBMITTED FOR YOUR REVIEW (SEE BELOW).

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>DWG. NO.</u>	<u>ITEM NO.</u>	<u>GOULDS F.O. NO.</u>
6	DIMENSIONAL DRAWING PERFORMANCE CURVE SECTIONAL (TYPICAL) MECH. SEAL (IF APP.)	C00646A Rev.3 CDS: 1834 SA405GL Rev.0		249664
6	DIMENSIONAL DRAWING PERFORMANCE CURVE SECTIONAL (TYPICAL) MECH. SEAL (IF APP.)	C00644A Rev.2 CDS: 1405-2 SA405GL Rev.0		249665

DIMENSIONAL DRAWING
 PERFORMANCE CURVE
 SECTIONAL (TYPICAL)
 MECH. SEAL (IF APP.)

**CUSTOMERS
 APPROVAL REQUIRED**
 BY *David L. Wadsworth*
 FOR CUSTOMER

David L. Wadsworth
 11/15/78

DIMENSIONAL DRAWING
 PERFORMANCE CURVE
 SECTIONAL (TYPICAL)
 MECH. SEAL (IF APP.)

PUMP INSTALLATION, OPERATING AND MAINTENANCE MANUALS ATTACHED.

YOUR COMPLETE APPROVAL REQUIRED BEFORE ORDER IS SCHEDULED AND RELEASED TO MANUFACTURING. UNLESS A LONGER PERIOD IS STATED IN YOUR PURCHASE ORDER, APPROVAL PRINTS MUST BE RECEIVED IN THIS OFFICE BY 12/15/78; DELAY BEYOND THIS DATE WILL RESULT IN EXTENDED DELIVERY.

THE ABOVE LITERATURE IS FOR YOUR INFORMATION ONLY, AND DOES NOT REQUIRE YOUR APPROVAL.

NOTE: ANY CHANGES MAY AFFECT QUOTED PRICES AND SHIPPING SCHEDULES.

VERY TRULY YOURS,

CC: Simon, Inc.
 mbs

Van A. Johnson

VAN A. JOHNSON

CERTIFIED DRAWING
Approved for Construction Purposes
GOULDS PUMPS, Inc.
SENECA FALLS, N. Y.

APPROVED:

David L. Wadsworth

David L. Wadsworth

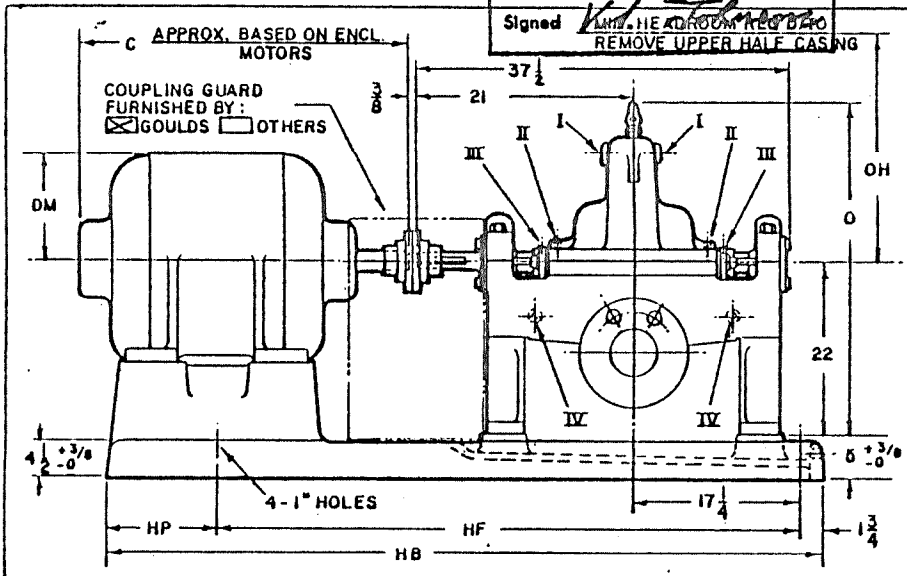
11/15/78

GOULDS PUMPS, INC.
ENGINEERED PRODUCTS DIVISION

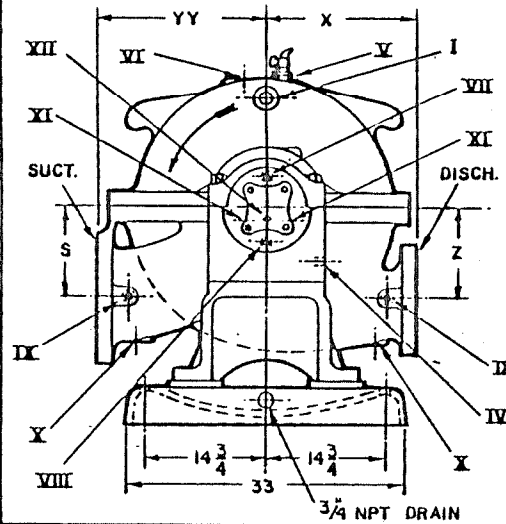
NOV 2 1978 MODEL 3405 "L"
WITH STD. IRON BEDPLATE

GREASE LUBE (STD.)
OIL LUBE (OPT.)

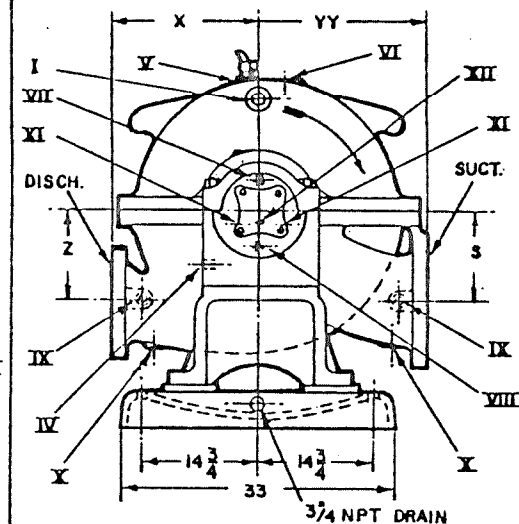
Signed *W. J. ...*
REMOVE UPPER HALF CASING



R.H. ROTATION - FURNISHED WHEN CHECKED



L.H. ROTATION - FURNISHED WHEN CHECKED



DIMENSIONS DETERMINED BY MOTOR

MOTOR FRAME SIZE	C	DM	WT. INCL. CPLG.	BED-PLATE NO.
254 U	22 1/2	6 1/2	255	1
256 U	24	6 1/2	280	
284 U	25 1/2	7 1/2	375	
284 US	24 1/2	7 1/2	345	
286 U	27	7 1/2	430	
286 US	26	7 1/2	380	
324 U	28 1/2	9	575	
324 S	27	9	485	
326 U	30	9	640	
326 S	28 1/2	9	570	
364 U	33	9 1/2	810	
364 US	31	9 1/2	755	
365 U	34	9 1/2	950	
365 US	32	9 1/2	865	
404 U	37	11	1085	
404 US	34	11	1080	
405 U	38 1/2	11	1170	
405 US	35 1/2	11	1110	
444 U	42 1/2	12 1/2	1550	
444 US	38 1/2	12 1/2	1510	
445 U	44 1/2	12 1/2	1780	
445 US	41	12 1/2	1635	
447 US	46	12 1/2	1875	

DIMENSIONS DETERMINED BY PUMP

DISCH. SIZE	SUCT. SIZE	CAS'G. CLASS	O	OH	S	X	YY	Z	WT.
* 6	8	22	40 1/2	29 1/2	12 1/2	20 1/2	22	12 1/2	1600
8	10	14	37 1/2	22 1/2	8 3/4	15	19	8 3/4	1285
8	10	17	38 5/8	25	10	16	20	10	1330
10	12	12	36 1/2	20 1/2	10	15	19	10	1300
10	12	14	38	23	10	16	20	10	1385
10	12	17	39 1/4	25 3/4	11	17	21	11	1555
12	14	12 D.V.	37 9/16	21 1/2	11	17	21	11	1600
12	14	14 D.V.	38 1/16	23 3/4	11	17	21	11	1620

TAPPED OPENINGS

NO.	SIZE	QTY.	PURPOSE	FURNISHED YES NO
I	1/4	2	BY-PASS CONNECTION	X
II	1/4	2	STUFFING BOX SEAL RING CONN.	X
III	1/4	4	GLAND QUENCHING CONN. (PKG.)	X
IV	3/4	2	STUFFING BOX OVERFLOW CONN.	X
V	1/4	1	CASING VENT	X
VI	3/4	1	CASING PRIMING CONN.	X
VII	3/8	2	BRG. COOLING OUTLET - GREASE	X
VIII	3/8	2	BRG. COOLING INLET - GREASE	X
IX	1/4	2	GAUGE CONN.	X
X	3/4	2	CASING DRAIN	X
XI	1/4	4	BRG. COOLING CONN. - OIL LUBE	X
XII	1/8	2	OIL DRAIN - OIL LUBE	X

DIMENSIONS DETERMINED BY BEDPLATE
CAST IRON BEDPLATE WITH DRIP BASIN

NO.	HB	HF	HP	WT.
1	68	55 1/4	11	850
X 2	76 1/2	59 3/16	14 5/16	1050

* DISCHARGE FOR IRON & BRONZE IS 250 LB. FLANGE, FOR STEEL 150 LB.

■ SIZE 8 X 10-17 HAS 1" PRIME CONN.

* "G" & "H" SUFFIXES ON PUMP SIZES DO NOT ALTER DIMENSIONS.

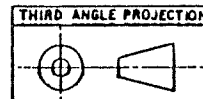
DRAWING IS NOT TO SCALE.
ALL DIMENSIONS ARE IN INCHES.
WEIGHTS ARE APPROXIMATE.

ANSI FLANGE DIMENSIONS F.F.

NOM. I.D.	O.D.	B.C.	THICK-NESS	NO. OF HOLES	SIZE OF HOLES
125 LB. DRILLING - 250 LB. THICKNESS					
6	11	9 1/2	1 7/16	8	7/8
8	13 1/2	11 3/4	1 5/8	8	7/8
10	16	14 1/4	1 7/8	12	1
12	19	17	2	12	1
14	21	18 3/4	2 1/8	12	1 1/8
250 LB. DRILLING					
6	12 1/2	10 5/8	1 7/16	12	7/8
8	15	13	1 5/8	12	1
10	17 1/2	15 1/4	1 7/8	16	1 1/8
12	20 1/2	17 3/4	2	16	1 1/4
14	23	20 1/4	2 1/8	20	1 1/4

GOULDS PUMPS INC., SENECA FALLS, N. Y., U.S.A.

GOULDS SERIAL NO. 2498665-1-2
CUSTOMER CITY OF KALAMAZOO, MICHIGAN
CUSTOMER P.O. NO. 31857
EQUIP. OR ITEM NO. _____
SERVICE BOOSTER PUMP #2 & #3



APPROVED:

David L. Wadsworth

David L. Wadsworth
11/15/78

DATE 1-19-55

12-15-77 TRACED, METRIC ADDED P.A.D.
REV. DATE 1-9-63 ISSUE #2

GOULDS PUMPS, INC.
SENECA FALLS, NEW YORK 1448

CENTRIFUGAL PUMP CHARACTERISTICS

RPM 1760 CDS 1405 - 2

MODEL 3405

SIZE 8 X 10-17G

IMP. DWG. 240-36

TEMP. 246-91

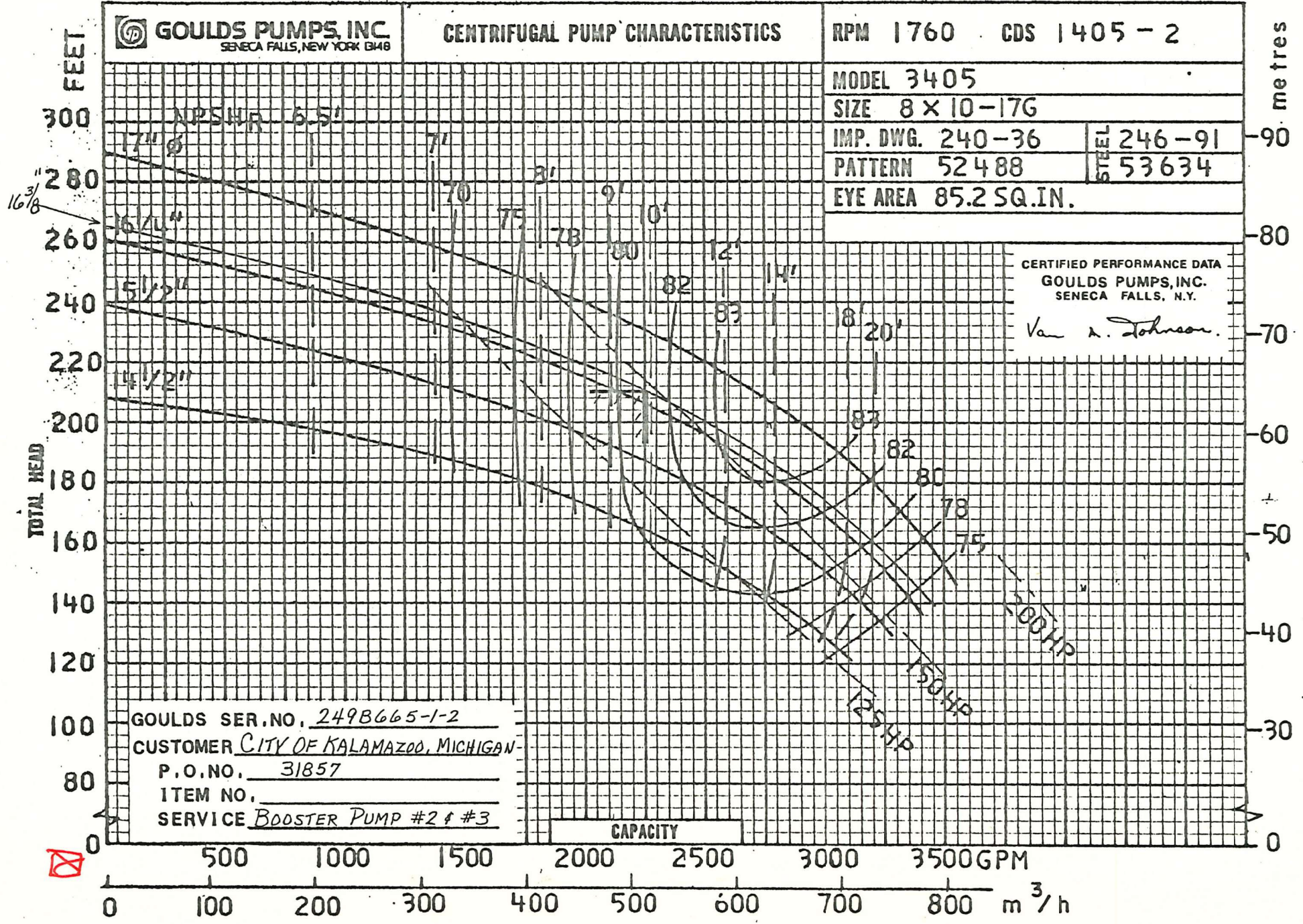
PATTERN 52488

TEMP. 53634

EYE AREA 85.2 SQ. IN.

CERTIFIED PERFORMANCE DATA
GOULDS PUMPS, INC.
SENECA FALLS, N.Y.

Van A. Johnson



GOULDS SER. NO. 249B665-1-2
 CUSTOMER CITY OF KALAMAZOO, MICHIGAN
 P.O. NO. 31857
 ITEM NO. _____
 SERVICE BOOSTER PUMP #2 & #3

CAPACITY

500 1000 1500 2000 2500 3000 3500 GPM

0 100 200 300 400 500 600 700 800 m³/h

APPROVED:

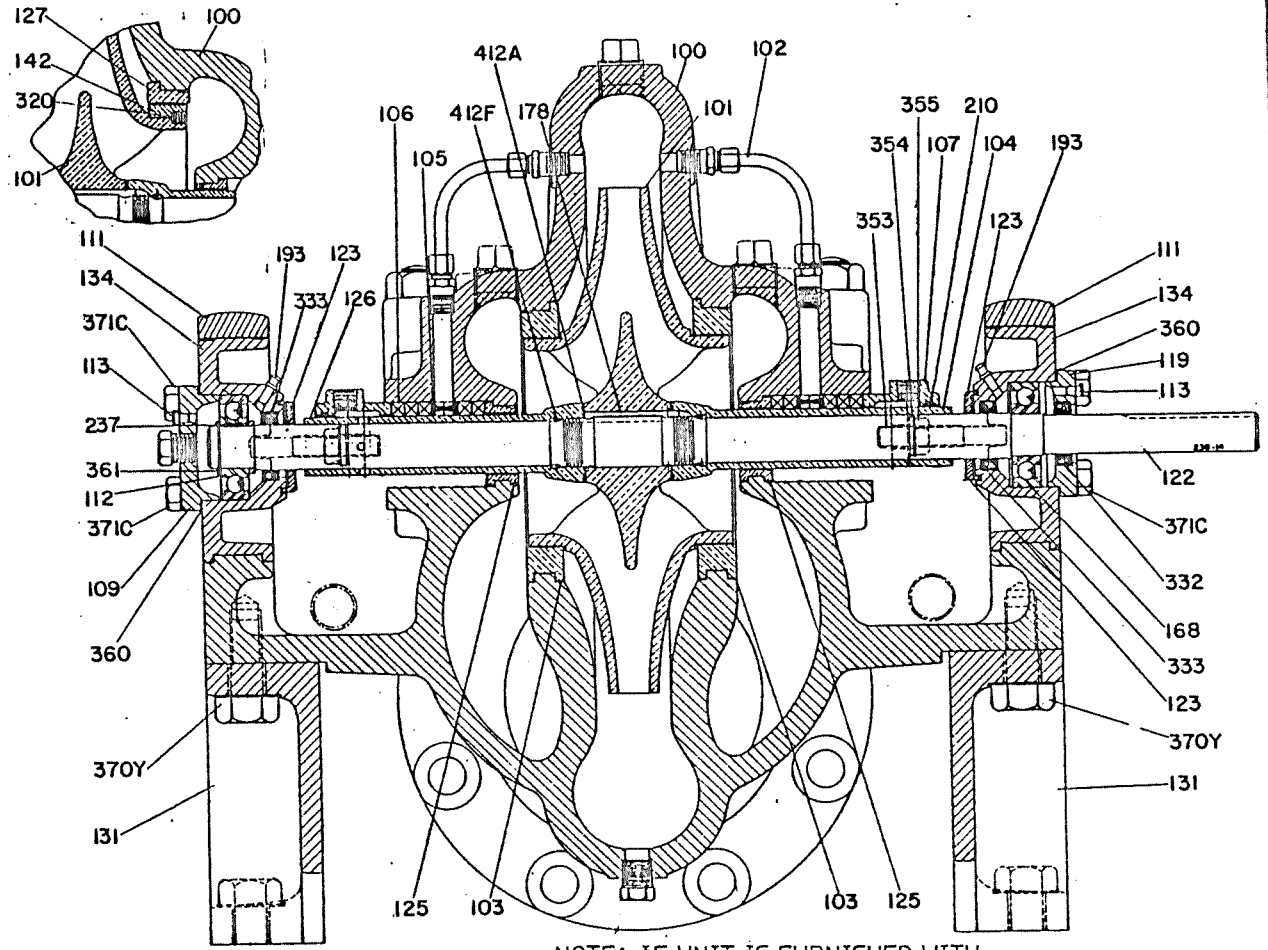
David L. Wadsworth

David L. Wadsworth

11/15/78

BILL OF MATERIALS

ITEM NO	QTY PER PUMP	PART NAME	MATERIAL
100	1	CASING	CI
101	1	IMPELLER	BRONZE
102	2	SEAL TUBING (BF OR AB)	COPPER
103	2	WEAR-RING - CASE	BRONZE
104	1	SHAFT-SLEEVE LKG	GL/FLD TEFLON
105	2	LANTERN RING	GL/FLD TEFLON
106	1SET	STUFFING BOX PACKING	ASBESTOS
107	2	GLAND - SB	BRONZE
109	1	BRG END COV - THR	CI
111	2	BRG CAP	CI
112	1	BALL BRG - THR	STEEL
113	2	GREASE RELIEF FTG	STEEL
119	1	BRG END COV - CPLG	CI
122	1	SHAFT	STEEL
123	2	DEFLECTOR	GL/FLD NYLON
125	2	BUSHING - SB	BRONZE
126	1	SHAFT SLEEVE	BRONZE
127	02	WEAR RING - CASE (USED FOR IMPLR RGS)	BRONZE
131	2	PEDESTAL	CI
134	2	BEARING HOUSING	CI
142	02	WEAR RING - IMPLR	BRONZE
168	1	BALL BRG - CPLG	STEEL
178	1	IMPELLER KEY	303SS
193	2	GREASE FITTING	STEEL
210	1SET	PACKING GLAND	ASBESTOS
237	1	SHAFT COLLAR	STEEL
320	6	SET SCREW - IMPLR	303SS
332	1	GREASE SEAL - CPLG OTR	SYN RUBBER
333	2	GREASE SEAL - INNER	SYN RUBBER
351	1	GASKET - CASE (NOT SHOWN)	ASBESTOS
353	X4-B	GLAND BOLT	303SS
354	X4	GLAND WASHER	416SS
355	X4	HEX NUT - GLAND BOLT	303SS
360	2	GASKET - END COVER	TAG PAPER
361	1	RETAINING RING	STEEL
370Y	4	H C SCREW - PED TO CASE	STEEL
371C	8	H C SCREW - COV	STEEL
382	1	BRG LOCKWASHER	STEEL
412A	2	O-RING - IMPLR	BLNA RUBBER
412F	2	O-RING - SHAFT	TEFLON



NOTE: IF UNIT IS FURNISHED WITH MECHANICAL SEAL, DELETE ITEMS 105, 106, 107, & 210 AND REFER TO SEAL DRAWING NO. _____

ATTACHED TO FOLLOW

GOULDS PUMPS, INC.
ENGINEERED PRODUCTS DIVISION
SENECA FALLS NEW YORK 13148

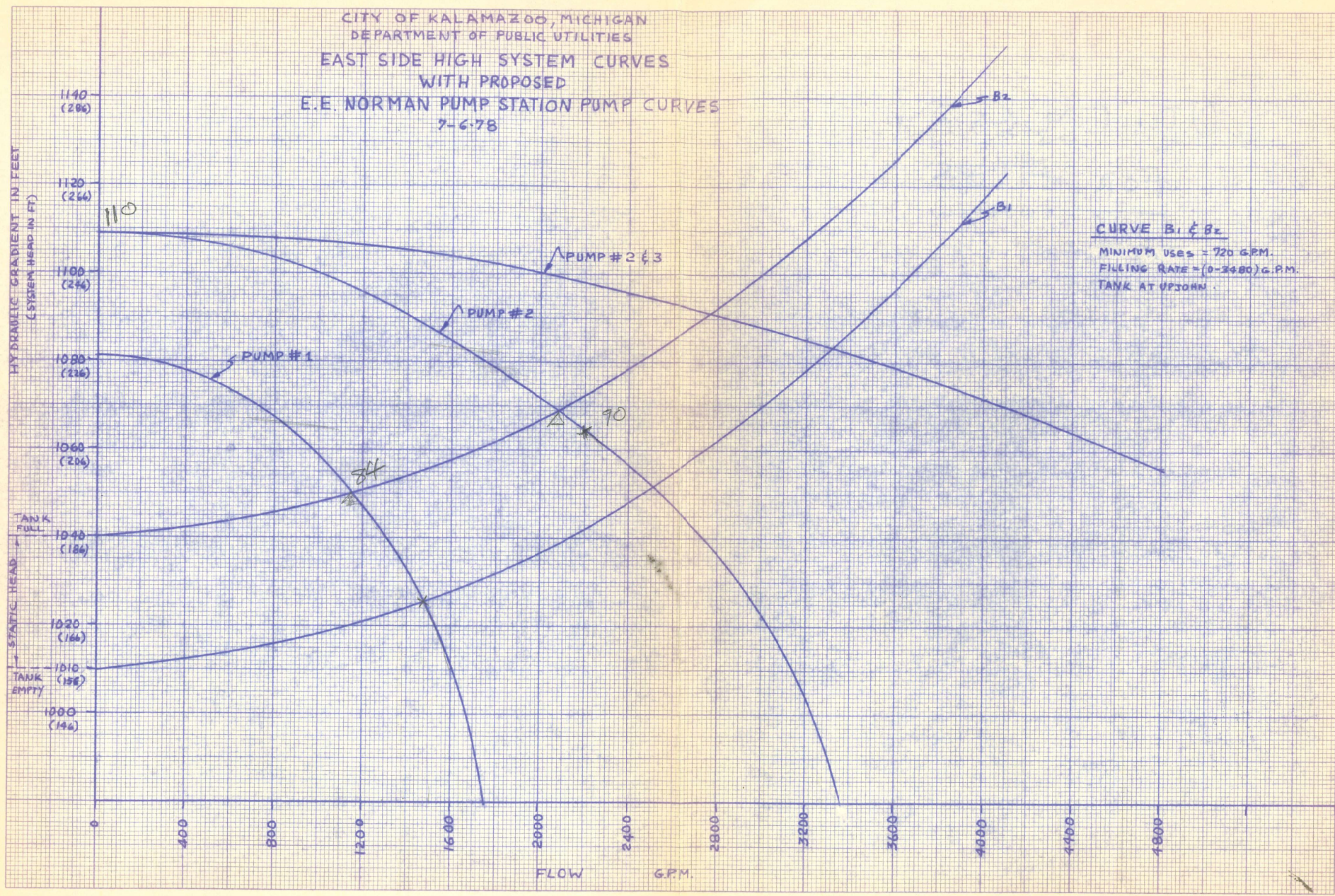
SECTIONAL ASSEMBLY

GREASE LUBE
MODEL 3405

GOULDS SERIAL NO. 249B665-1-2
CUSTOMER CITY OF KALAMAZOO, MICHIGAN
CUSTOMER P.O. NO. 31857
EQUIP. OR ITEM NO. _____
SERVICE BOOSTER PUMP #2 & #3

DRAWN BY VAJ	CHKD. BY VAJ	DATE 8-18-78	SCALE NONE
MODEL 3405	DRAWING SA405GL	REV. 0	

CITY OF KALAMAZOO, MICHIGAN
 DEPARTMENT OF PUBLIC UTILITIES
 EAST SIDE HIGH SYSTEM CURVES
 WITH PROPOSED
 E. E. NORMAN PUMP STATION PUMP CURVES
 7-6-78



E. E. NORMAN -- BOOSTER STATION
KALAMAZOO CITY UTILITIES

6LR-18"A"

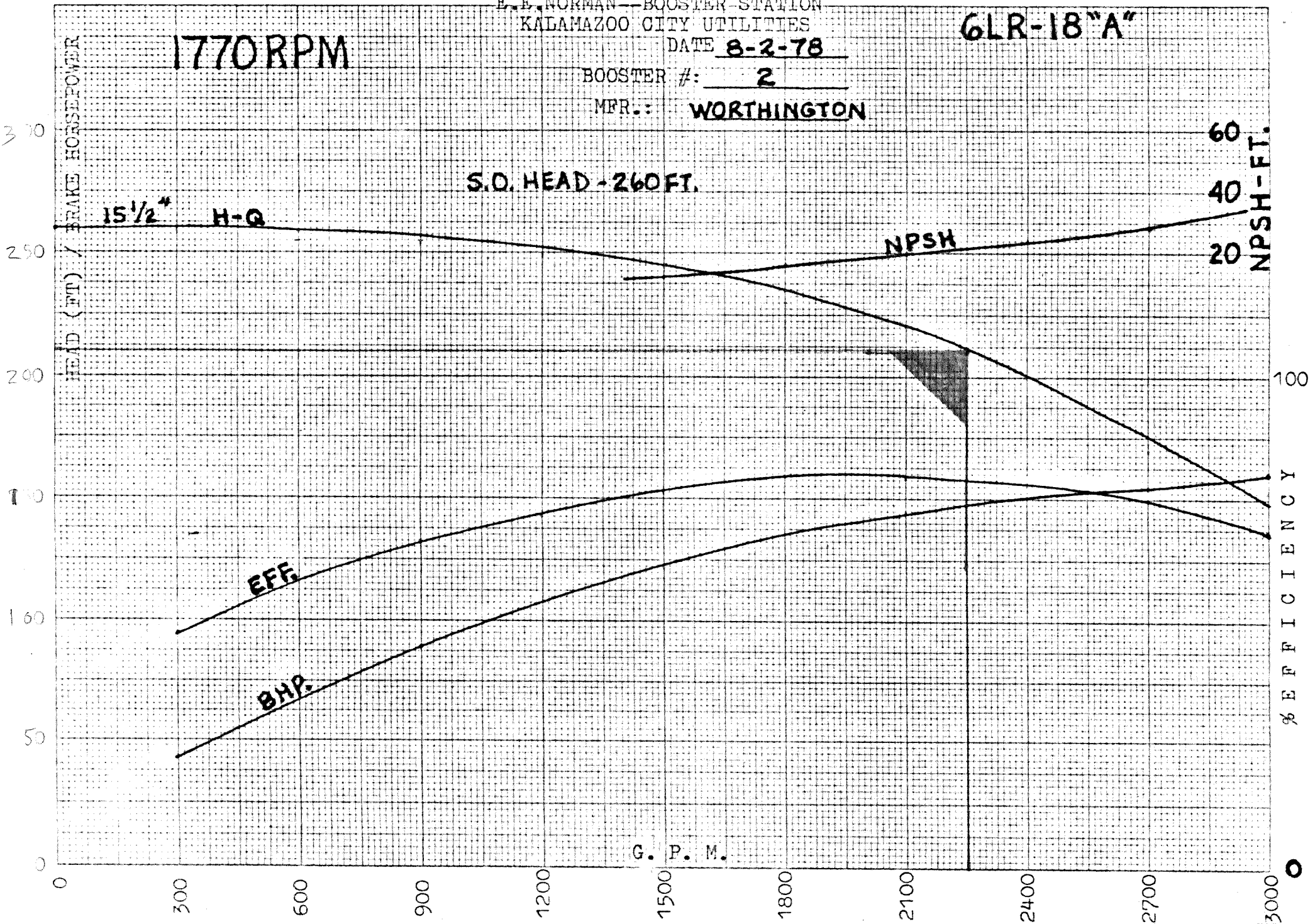
DATE 8-2-78

BOOSTER #: 2

MFR.: WORTHINGTON

1770 RPM

S.O. HEAD - 260 FT.



G. P. M.