

City of Mt. Pleasant, Michigan

CONTRACT DOCUMENTS

For

Well #17 Rehabilitation Pump and Motor Inspection and Repair



NANCY RIDLEY

City Manager

JOHN ZANG

Director – Division of Public Works

MALCOLM FOX

Water Department Supervisor

February 2016

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CITY HALL
320 W. Broadway • 48858-2447
(989) 779-5300
(989) 773-4691 fax

PUBLIC SAFETY
804 E. High • 48858-3595
(989) 779-5100
(989) 773-4020 fax

PUBLIC WORKS
1303 N. Franklin • 48858-4682
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NOTICE TO BIDDERS

WELL 17 REHABILITATION PUMP AND MOTOR INSPECTION AND REPAIR

The City of Mt. Pleasant, Michigan, is requesting sealed bids at the Office of the City Clerk, City Hall, 320 W. Broadway Street, Mt. Pleasant, Michigan 48858, until 1:30 p.m. (local time), on Tuesday, March 15, 2016, at which time and place the bids will be publicly opened and read. All bids shall be submitted in a sealed envelope, plainly marked "Well 17 Rehabilitation, Pump and Motor Inspection and Repair – March 15, 2016."

Proposals are solicited on a lump sum basis, for the following work:

Well #17 Rehabilitation, Pump and Motor Inspection and Repair

All bid proposals must be accompanied by a bid bond, bank cashier's check, bank draft, or certified check for not less than five percent (5%) of the bid price, made payable to the City of Mt. Pleasant.

Complete specifications are available at the Public Works Building, 1303 North Franklin Street, Mt. Pleasant, Michigan 48858, 8:00 a.m. to 4:30 p.m., Monday through Friday, or can be viewed and downloaded at no charge at www.mt-pleasant.org and navigate to the Bids and Quotes page.

The City of Mt. Pleasant reserves the right to accept or reject any or all bids, to waive any irregularities in the bids, and to select the bid considered most advantageous to the city.

Malcolm Fox
Supervisor, Water Department
(989) 779-5426

Jeremy Howard
City Clerk

City of Mt. Pleasant, Michigan
INSTRUCTIONS TO BIDDERS

1. **Proposals**

Proposals must be made upon the forms provided therefore, with the Bid amount both written and shown in figures, and all other data required submitted.

The Proposal, bound together with all Proposal Documents, must be enclosed in a sealed envelope marked as specified in the Notice to Bidders for such Bid and clearly indicating the name and address of the Bidder and must be received by the City Clerk, City Hall, 320 West Broadway Street, Mt. Pleasant, Michigan 48858, no later than the time and date specified in the Notice to Bidders. At such specified time, Proposals shall be publicly opened and read aloud.

2. **Basis of Proposals**

Proposals are solicited on the basis of unit price(s) and/or lump sum(s), as specified on the Proposal form.

The City of Mt. Pleasant (also referred to as "Owner"), reserves the right to accept any Bid, to reject any or all Bids, to waive any irregularities in the Bids, and to select the Bid considered most advantageous to the city.

3. **Comparison of Bids**

In comparing Bids, consideration shall be given to the time proposed for completion of the Contract, qualifications of Bidder, price differentials, alternate Proposals for the alternate items listed in the Proposal (if applicable), and any other pertinent factors. **The City of Mt. Pleasant grants a preference to businesses located within the Mt. Pleasant City Limits. The preference given is a differential above the low bid if the low bid is not from a City of Mt. Pleasant bidder. The differential allowed is 3% of the total for bids between \$5,000 and \$9,999 and 2% of the total for bids over \$10,000. The maximum credit allowed is \$1500.00.** The Owner reserves the right to make an award to the Bidder whose Proposal is deemed to be in the best interest of the Owner.

4. **Time**

Time is of the essence in the performance of the Contract, and each Bidder, by submitting a Proposal, certifies his/her acceptance of the time allowed by the Contract for the completion of the work specified.

5. **Indemnification**

The Contractor shall save and hold harmless the city and its employees from and against all claims, damages, losses, or expenses, including attorney's fees, arising out of or resulting from the performance of the work; provided that any such claim, damage, loss or expense is caused in whole or in part by any negligent or willful act of omission of the contractor, subcontractor, employee, or anyone under their direction. The Contractor

shall at his/her own expense, defend any and all such actions and shall pay all attorney's fees, costs, and expenses pertaining thereto.

6. **Bid Deposits**

Each Proposal shall be accompanied by a certified check, or a Bid Bond by a recognized Surety Company similar to a U. S. Government Standard Form Bid Bond, in the amount of five percent (5%) of the total amount of the Bid, made payable to the City of Mt. Pleasant, subject to forfeiture to the Owner in the event of failure on the part of the successful Bidder to enter into the attached form of agreement to do the work specified by said Proposal at the price and within the time stated therein. The Bid Deposit of all Bidders, except the three (3) lowest acceptable Bidders, shall be returned within two (2) weeks after opening of bids. The bid deposits of the three (3) lowest acceptable bidders shall be returned within 48 hours after the executed Contract(s) have been finally approved by the Owner.

7. **Liquidated Damages**

A liquidated damage clause, as given in the Contract form, provides that the Contractor shall pay the Owner as liquidated damages, and not as a penalty, the amount indicated in the Proposal for each and every calendar day that the Contractor may be in default of substantial completion of the work required under said Contract.

8. **Insurance and Bonds**

The successful Bidder will be required to execute (2) Bonds, in the form attached hereto, with Surety acceptable to the Owner and insurance, as follows:

- a. Bond in the amount of 100% of the Estimated Contract Price running to the City of Mt. Pleasant, Michigan, to insure the completion of the entire work, according to the statutes of the State of Michigan in effect at that time.
- b. Bond in the amount of 100% of the Estimated Contract Price running to the People of the State of Michigan for the protection of Subcontractors and Labor and Material Men, according to the statutes of the State of Michigan in effect at that time.
- c. Insurance in the amounts required by City Ordinance as specified in the Section 1 - General Construction Specifications, attached hereto.

The successful bidder shall be required to furnish for each set of executed Contract Documents, and conformed copies thereof, an original conformed Performance Bond, Labor and Materials Bond, Maintenance Bond, and Insurance Certificates.

9. **Permits and Local Codes**

The Owner shall procure the required permits for municipal sanitary sewer construction, municipal water system construction, and soil erosion control.

The Contractor shall obtain, at his/her expense, all other required local construction permits and shall comply with local building code and inspection requirements.

10. **Qualifications of Bidders**

It is the intent of the Owner to award the Contract to a Bidder fully capable, both financially and with regard to experience, to perform and complete all work in a satisfactory and timely manner. Evidence of such competency must be furnished on the forms included in the proposal, listing projects of similar difficulty, scope of work, and size, which the Bidder has satisfactorily undertaken and completed.

It is the intention of the City to award the contract to a Contractor whose ability and financial resources are fully equal to the task of performing the work in a satisfactory manner. With this in view, the Proposal calls for at least five (5) references, using specific names of persons to contact concerning the Contractor's ability to do this particular class of work. References from municipalities are preferred. The mere ability to furnish a Performance Bond shall not be accepted as sufficient evidence of responsibility on the part of the Bidder. The Bidder may also be required to furnish evidence of his current financial status.

11. **Interpretation of Documents**

If any Bidder is in doubt as to the true meaning of any part of the Plans, Specifications or any Contract Document, he/she may submit to the Owner a written request for an interpretation thereof. Any interpretation made in response to such a query shall be made only by Addendum, duly issued, and a copy of such Addendum shall be mailed or duly delivered to each prospective Bidder. The Owner shall not be responsible for any other explanation or interpretation of the Contract Documents. Alternative proposals that are suggested by bidders will be given consideration, if presented before the bid opening. If accepted, an addendum will be issued and sent out to all potential bidders, so that they may bid on the alternatives that have been identified.

12. **Execution of Bid Proposal**

A Bid Proposal, which is not signed by the individual making it, should have attached thereto a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the person for whom it is signed.

A Bid Proposal, which is signed by a partnership, shall be signed by all of the partners or by an Attorney-in-Fact. If signed by an Attorney-in-Fact, there should be attached to the Bid a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the partnership and such Power of Attorney shall be signed by all partners of the partnership.

A Bid Proposal, which is signed for a corporation, should have the correct corporate name thereof and the signature of the President, or other authorized officer(s) of the corporation, manually written below the corporate name and on the line indicating "By:_____." If such a Bid Proposal is manually signed by an officer other than the President of the corporation, a certified copy of a Resolution of the Board of Directors evidencing the authority of such officer(s) to sign the Bid Proposal should be attached thereto. Such a Bid Proposal should also bear the attested signature of the Secretary of the corporation and an impression of the corporate seal.

13. **Execution of Contract**

The successful Bidder to whom an award is made shall be required to enter into a written agreement, in the form attached hereto, within ten (10) days after receipt of the Notice of Award and copies of the documents to be executed. In the event the successful Bidder fails to comply with this provision, he/she may be considered by the Owner to have abandoned all his/her rights and interests in the award and his/her certified check or amount of the Bid Bond may be declared to be forfeited to the Owner, and the Contract may be awarded to another.

14. **Bidder Responsibility for Conditions of Work and Site**

The Bidder, or his/her representative, shall make personal investigation of the site of work and of existing structures and shall determine to his/her own satisfaction the conditions to be encountered, the nature of the ground, the difficulties involved in making connections to existing structures and pipes, and any and all other factors affecting the work proposed under the Contract.

The Bidder to whom the Contract is awarded shall not be entitled to any additional compensation by reason of conditions being different from those anticipated or by reason of his/her failure to fully acquaint himself/herself with the conditions at the site affecting the work of the Contract.

15. **Changes in Work**

If any change is required to be made in the work of the Contract, a payment adjustment therefore shall be determined as specified in the "TECHNICAL SPECIFICATIONS, Section 1 - General Construction Specifications" of the Contract.

B I D P R O P O S A L

**WELL #17 REHABILITATION
PUMP AND MOTOR INSPECTION AND REPAIR**

TO: Office of the City Clerk
City Hall
320 E. Broadway Street
Mt. Pleasant, MI 48858

BID DATE: March 15, 2016
TIME: 1:30 p.m.

The undersigned, as Bidder, hereby declares that his bid is made in good faith without fraud or collusion with any person or persons bidding of the same Contract; that he has carefully read and examined the Contract Documents, including the Notice to Bidders, Instructions, Bond Forms, Technical and Detailed Specifications, and Contract Drawings, for the designated work and understands all of the same; that he, or his representative, has made such a personal investigation at the site as is necessary to determine the character and difficulties attending the execution of the proposed work; and he proposes and agrees that if this Proposal is accepted, he will contract with the Owner in the form of the Contract hereto annexed, to provide necessary machinery, tools, apparatus and other means of construction, including utility and transportation services, necessary to do all the work and furnish all the materials and equipment specified or referred to in the Contract Documents, including Addenda No. __, __, and __, in the manner and time therein prescribed, and according to the requirements of the Owner as therein set forth to furnish Contractor Bonds and Insurance required of the Contractor by the Contract Documents, and that he will take in full payment therefore the unit prices set forth in the following Proposal.

The Bidder understands that the Owner reserves the right to reject any or all bids and to waive any irregularities in the bidding.

The Bidder agrees that his bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving the bids.

Upon receipt of a written Notice of Award of the Bid, the Bidder shall execute the formal Contract Agreement attached hereto within ten (10) days and shall deliver to the Owner a Surety Bond or Bonds required. In the event the Contract and Bond are not executed within the time above set forth, the Bid Deposit attached in the sum of five percent (5%) of the Bid Proposal shall become the property of the Owner as liquidated damages for the delay and additional expense to the Owner caused thereby.

The Bidder hereby agrees to commence work under this Contract on or before the date to be specified in the written Notice to Proceed executed by the Owner and to fully complete the project as stipulated in the Specifications within a period of one hundred twenty (120) consecutive calendar days thereafter, as provided. The Bidder further [WELL agrees to pay as liquidated damages the sum of Two Hundred Fifty Dollars (\$250.00) for each consecutive calendar day thereafter, until substantial completion, that is when all work items in the proposal are complete and notification of substantial completion of work items and final quantities is given to the Director of Public Works by the contractor.

The below unit prices shall include all labor, materials, overhead, profit, insurance, etc., to cover the finished work of the several kinds specified, and the Bidder agrees to perform all of the work described in the Specifications and/or shown on the Plans for the following unit prices:

ITEM NO.	DESCRIPTION	LUMP SUM PRICE
#1	Well #17 Rehabilitation	\$ _____
#2	Well #17 Pump and Motor Inspection and Repair	\$ _____
#3	Major Pump Repair Parts (Specification Item #3)	\$ _____
	Proposed Pump Bowl Brand/Model:	_____
#4	Pressure Transducer (Specification Item #4)	\$ _____
TOTAL BID		\$ _____
		(Figures)

 (Written)
 _____ and _____ /100 Dollars.

Respectfully Submitted,
 Company Name _____
 Address _____
 City _____ ST _____ Zip Code _____
 Telephone Number _____ Fax _____
 Email Address _____ Date _____
 Authorized Signature _____
 Print or Type Name and Title _____

EXPERIENCE QUESTIONNAIRE
TO BE FURNISHED BY BIDDER
CITY OF MOUNT PLEASANT, MICHIGAN

The signatory of this proposal guarantees the truth and accuracy of all statements and of all answers hereinafter made.

1. How many years have you been in business as a contractor under your present name?

2. How many years have you been a principal officer of a firm under a different name?

Name of Firm _____

3. What projects of a similar nature has your organization contracted for within the past five years? (NOTE: Fill out each blank completely.)

Name of Owner & Location	Name/Address/Phone # of Person in Charge as Reference	Type of Work	Value of Work	Date Completed
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____

City of Mt. Pleasant, Michigan
ADMINISTRATIVE MEMO NO. 8-78

Issued: October 10, 1978

Revised: June 21, 1989

Subject: **MINIMUM INSURANCE REQUIREMENTS FOR CONTRACTORS**

Summary Statement

The provision of adequate insurance by persons and businesses working for the city or on street right-of-way is essential to protect the public from the costs of injury or damage and to protect the city from unnecessary liability resulting from the acts of persons and businesses working for the city. Minimum insurance requirements are needed to provide this protection.

Memo

Persons or businesses which provide professional services to the city under the terms of a written contract or provide labor and/or material to accomplish work for the city or for others on or over street right-of-way or other city property shall carry insurance and bonds to protect the public and the City from exposure to unnecessary financial risks.

Prior to signing of contracts, issuance of purchase orders or permits, or other authorization to begin work, certificates of insurance evidencing the purchase of insurance in amounts not less than required by the Administrative memo or bid specifications, whichever is greater, shall be filed with City Clerk. Such certificates shall:

- a. Show that the insurance is currently in force and termination date of each policy.
- b. State the limits of liability of the policies covered by the certificate.
- c. Show that the City of Mt. Pleasant is to be specifically named in policy as an "additional insured" and should be issued to the City of Mt. Pleasant as the certificate holder.
- d. Provide that the City will receive not less than 10 days written notice of the cancellation of any listed policy.
- e. Be issued in the name of an insurance company authorized to conduct business in the State of Michigan.

Required bonds shall be filed with the City Clerk prior to the signing of contracts or other authorizations to proceed with work.

Insurance and bonds shall meet or exceed the following requirements. Exceptions to recognize more or less hazardous operations and financial risks should be considered and with approval of the City Manager may be made in specifications or contract requirements prior to awarding contracts or issuing purchase orders.

INSURANCE REQUIREMENTS

Type	Limit of Liability	Required of: City Contractor	Contractor on R-O-W
Worker's Compensation and Employer's Liability	Statutory Coverage B \$100,000	X	X
Public Liability (including products and completed operations liability)			
Bodily Injury	\$250,000 each person	X	X
	\$500,000 each accident	X	X
Property Damage	\$250,000 each accident	X	X
	\$250,000 each aggregate	X	X
Automobile Liability (including hired cars and automobile non-ownership)			
Bodily Injury	\$250,000 each person	X	X
	\$500,000 each occurrence	X	X
Property Damage	\$250,000 each accident	X	X
	\$250,000 each aggregate	X	X
Additional Insured Clause	City of Mt. Pleasant to be specifically named in policy as an "additional insured"	X	X
Excess Liability (Required unless risk occurrence is nominal)	\$1,000,000 each	X	

Persons or businesses engaged to provide labor and material in an amount in excess of \$10,000, or who will receive partial payments as work progresses will provide labor, performance and material bonds equal to the value of the work being performed. Such bonds are not required where the work to be done is of a type in which the failure to perform will not adversely affect the city's ability to function or increase the city's cost of completing the work.

**City of Mt. Pleasant
2016 Well #17 Rehabilitation
Pump and Motor Inspection and Repair**

SPECIFICATIONS

The City of Mt. Pleasant is accepting bids for the inspection and rehabilitation of Well #17, located at 3995 East Deerfield Road, Mt. Pleasant, Michigan, to include all the materials specified below, labor, equipment, and chemicals. The Pump Installation Report is attached.

The contractor must be a licensed well driller with demonstrated experience in Type 1 municipal water wells.

Item 1: Rehabilitation - Work on Well #17 shall be as follows:

1. Provide before and after television logs of the well casing and screen with a copy of each furnished to the Owner.
2. The casing shall be swabbed and scoured.
3. The screen shall be cleaned with acid **and** chemicals.
4. After removal of pump, Set 4" x 1" airlift to a total depth of 100 feet below ground surface
5. Chlorinate the well with 25 gallons of chlorine mixed into 2,000 gallons of water and placed into the well through the airlift. The chlorine solution should be allowed contact time overnight or a minimum of 12 hours.
6. Acidize the well with 220 gallons of hydrochloric acid, inhibited and stabilized for contact with metal and NSF 61 approved. This shall be accomplished by mixing 110 gallons of acid in a 1,000 gallon cleaning tank, times two (2) tanks and then pumping into the well down through the airlift for a total volume of 2,000 gallons.
7. Acid shall be allowed contact time of minimum six (6) hours before being pumped off.
8. Contractor may be required to add acid during the contact time to maintain a pH below 3.
9. Contractor is responsible to raise the pH of the pump off solution to greater than pH 6.5 using soda ash or sodium bicarbonate.
10. Repeat the acid treatment a 2nd time with 220 gallons of acid mixed into a total volume of 2,000 gallons of water.
11. Airlift the well clean for eight (8) hours.
12. Chlorinate the well with 1,000 gallons of water containing 10 gallons of chlorine prior to removing the air lift.
13. After the pump has been reinstalled, the well shall be chlorinated. Contractor is responsible for cleaning and chlorinating the well to provide a bacteria-free well.
14. After chlorination and the installation of the pump, a Pump Efficiency Field Test shall be performed, and the results given to Owner.

NORMAL OVERHAUL

Item 2 – Pump and Motor Repair - Well #17

1. The 40 HP VT hollow shaft pump motor shall be overhauled complete with a new upper and lower bearing, insulate and bake windings, complete dynamic balance, surge tested, disassembled, cleaned and reassembled. Motor shall be painted machinery gray.
2. Reconditioning of the head. Head shall be painted machinery gray.
3. Stuffing box bearings.
4. A set of packings.
5. Water slinger.
6. Copper tube air line complete with gauge and fittings – per 100’.
7. Pressure gauge complete with petcock and fittings.
8. Set of discharge nuts, bolts, and gaskets.
9. Replace 12” Lemco drawdown seal
10. Stainless steel head and motor shaft.
11. All new rubber line shaft bearings.
12. Realignment of all shafting.
13. Set of bowl bearings.
14. Bore bowl for wear rings and install set of bronze wear rings.
15. Machine impeller hubs.
16. Chlorine to sterilize well and pump.
17. Grease and paint.
18. All labor to include: mobilization to job site, setup, complete pump removal, demobilization to your shop, clean entire pump for inspection, installation of parts in items 1-15, mobilization to job site, setup, set complete pump, chlorination, and final demobilization. Before pulling the pump from Well #17, an Increment Head Capacity Test must be run so that the condition of the wells can be determined.
19. A vibration analysis shall be performed after the pump is set and started up. The test shall be run at the pumps rated flow condition. Vibration should not exceed 0.3 mils in the x or y planes. The vibration test shall be witnessed by the City and documentation report provided with the final invoice. The test must be performed with a digital meter and magnetic probe. Handheld vibration pens and similar low tech devices are not acceptable. Contractor is responsible for dynamically balancing the pump until vibration is less than 0.3 mils in the x or y plane to the City’s satisfaction. The pump shall operate vibration free for a minimum of one year from startup or it will be corrected by the contractor at no additional cost to the City to the tolerance listed above.

Item 3 - Major Pump Repair Parts - Well #17

1. (6) - Pump column (8”) – 10’, Epoxy Coated inside and out.
2. (2) – Pump column (8”) – 5’, Epoxy Coated inside and out.
3. (6) - 1” line shaft with stainless steel sleeve and S.S. coupling – 10’.
4. (2) - 1” line shaft with stainless steel sleeve and S.S. coupling – 5’.
5. (1) – 1” head and motor shaft, stainless steel – 75”
6. (1) – 1-1/2” x 81-1/2” bowl shaft, stainless steel
7. (1) - Pump bowl – 6 Stage Floway or equal cast iron/bronze fitted bowl.

Note: This is a potential Adder.

Item 4 – New Equipment Installation

Provide and install a Dynotek slimline submersible pressure (no substitutions or equals) transducer with a 1" PVC schedule 40 stilling column. The Dynotek transducer shall have 80 feet of standard 0.305 inch diameter cable with two (2) conductors, shield, drain and 0.30 inch TPE alloy jacket and Kevlar 130 lb min tensile strength member. Specifications are also available at:

<http://www.dynotekonline.com/pdf/slimline%20spec%20sheet.pdf>

The stilling column shall have drilled perforations near the transducer level to allow accurate performance, and shall have a stop installed at the bottom of the pipe to prevent the transducer from falling past that depth. The transducer shall be set at a level above the pump bowls to provide for an accurate real-time level measurement with a 4-20mA output.

Item 5 – Reports and Documentation

1. The Well and Pump Efficiency Test and Performance Report shall be submitted to the Owner. This Performance Report shall be fully completed and include a pump curve.
2. A Pump Installation Report shall be submitted to the owner. This report shall include a list of repaired or replace parts, a well and well inspection sheet, and also have a completed schematic diagram of the well and pump. This report information may be included in the Performance Report.
3. A Well Cleaning Field Log shall be provided listing the type and amount of all chemicals used during cleaning, and the time spent by the field crew at each activity. This information may be included in the Pump Installation Report instead of being submitted separately.

The 2011 Pump Installation Report is included for reference.