

City of Mt. Pleasant, Michigan

# **CONTRACT DOCUMENTS**

For Construction  
Of

**2010 WASTEWATER TREATMENT PLANT  
DESIGN, FURNISH, AND INSTALL  
GEOTHERMAL HEATING AND COOLING SYSTEM**



**JAMES HOLTON**  
Mayor

**KATHIE GRINZINGER**  
City Manager

Prepared By:  
Division of Public Works

**DUANE F. ELLIS, P.E.**  
DPW Director/City Engineer

June 2010



# THE CITY OF MT. PLEASANT, MICHIGAN

## CITY HALL

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

## PUBLIC SAFETY

804 E. High St. • 48858-3599  
(989) 779-5100  
(989) 773-4020 fax

## PUBLIC WORKS

1303 N. Franklin St. • 48858-4682  
(989) 779-5401  
(989) 772-6250 fax

## NOTICE TO BIDDERS

### 2010 WASTEWATER TREATMENT PLANT GEOTHERMAL HEATING AND COOLING SYSTEM

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, July 13, 2010**, at which time and place the bids will be publicly opened and read. All bids shall be submitted in a sealed envelope, plainly marked **"2010 WASTEWATER TREATMENT PLANT GEOTHERMAL HEATING AND COOLING SYSTEM - JULY 13, 2010."**

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

Design, Furnish, and Install Geothermal Heating and Cooling System

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 Plans and Specifications are available at the Public Works Building, 1303 N. Franklin Street, Mt. Pleasant, Michigan 48858, (989) 779-5401, Monday through Friday, 8:00 a.m. to 4:30 p.m. To view and download complete Plans and Specifications at no charge, visit the City of Mt. Pleasant website at [www.mt-pleasant.org/depts/engineering/biddinginfo.htm](http://www.mt-pleasant.org/depts/engineering/biddinginfo.htm)

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.

Duane Ellis, P.E.  
City Engineer  
(989) 779-5402

Jeremy Howard  
City Clerk

[2010 WWTP GEOTHERMAL SYSTEM – NB]

CITY OF MT. PLEASANT  
2010 WASTEWATER TREATMENT PLANT  
GEOTHERMAL HEATING AND COOLING SYSTEM

**B I D P R O P O S A L**

City Clerk  
City Hall  
320 W. Broadway Street  
Mt. Pleasant, Michigan 48858

**BID DATE: July 13, 2010**  
**TIME: 1:30 p.m.**

The undersigned, as Bidder, hereby declares that this bid is made in good faith without fraud or collusion with any person or persons bidding on the same Contract; that the Bidder has carefully read and examined the Contract Documents, including the Notice to Bidders, Instructions, Bond Forms, City of Mt. Pleasant Standard Construction Specification, Technical and Detailed Specifications, and Contract Drawings, for the designated work and understands all of the same; that the Bidder, or the Bidder's representatives, 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 the Bidder proposes and agrees that if the Proposal is accepted, the Bidder will contract with the Owner in the form of the Contract hereto annexed, to provide the 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 Addendum 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 the Bidder 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 and all bids and to waive any irregularities in the bidding.

The Bidder agrees that this 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 Special Conditions of these specifications. The Bidder further agrees to pay as liquidated damages the sum indicated in the Special Conditions 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	UNIT	QTY	UNIT COST	TOTAL
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1.	Design, furnish, and install geothermal heating and cooling system	L Sum	1	_____	_____
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Total Bid \$ \_\_\_\_\_  
 (figures)

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars.  
 (written)

RESPECTFULLY SUBMITTED,

COMPANY NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

AREA CODE/TELEPHONE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

FAX NUMBER \_\_\_\_\_

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

Print or Type Name and Title \_\_\_\_\_

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

Print or Type Name and Title \_\_\_\_\_

City of Mt. Pleasant  
General Contractor Services  
2010 Wastewater Treatment Plant  
Geothermal Heating and Cooling System

1. General

The City of Mt. Pleasant Wastewater Treatment Department is seeking bids to design, build, and install a geothermal heating and cooling system that will replace an existing 15 ton Chiller Unit. The geothermal system will integrate with the existing plant HVAC system, utilizing existing coils and ductwork. The cooling medium will be plant effluent water. Replacement of one existing air handling unit with a high efficiency direct-drive handler will be required.

2. Scope of Work

- The successful bidder will provide all plumbing materials and labor to connect the new units to the existing plant HVAC systems *except:* the WWTP staff will install all required piping, fittings and pumps as needed to transport plant effluent water to the units to be installed. All final connections will be performed by the chosen bidder or their subcontractor. The chosen bidder will coordinate with City WWTP staff regarding type, size and location of water lines to be installed by City staff prior to the beginning of installation.
- The chosen bidder or their subcontractor will provide and install all required sheet metal transitions to connect the new units to the existing ductwork.
- The successful bidder will be responsible for all electrical work, including but not limited to conduit, wiring, control units, or thermostats, and any labor or materials required to provide a fully functional system.
- The selected bidder will provide two days startup and training sufficient to allow plant staff to perform routine maintenance, adjustments and repairs. Any special or proprietary tools required to maintain or service the equipment will be provided to the staff as part of this project.

3. Materials

- The geothermal units will be capable of providing a minimum of 190,000 BTUs of cooling capacity.
- All exposed metal in the coils and fins will be coated with a corrosion resistant material to protect against moisture or corrosive atmosphere. A minimum 10-year warranty against corrosion and leaks will be provided.
- Refrigerant will be R410A, no exceptions.
- Programmable temperature controllers with remote sensors will be provided for each unit.

- Supplied units will have a minimum Seasonal Energy Efficiency Rating of 14.

4. Warranty and Service

- Geothermal units will be covered by a minimum factory warranty of 10 years on parts and labor.
- Installation work will be backed by a minimum of one year labor for adjustments, training or service.
- Chosen bidder must agree to respond to service requests within two (2) working days.

5. Project Schedule

The geothermal heating and cooling system installation is scheduled for the summer of 2010. The system must be installed and operational within 30 days of the contractor receiving the equipment.