
PRE-BID ADDENDUM NUMBER 1

Project Bid: Clarifier No. 1 Rehabilitation Project

Bid Time & Date:

Tuesday, November 10, 2015 at 1:30 pm (no change)

Opening: Office of City Clerk
City of Mt. Pleasant
320 West Broadway Street
Mount Pleasant, MI 48858

Addendum Issued By:

City of Mt. Pleasant
Division of Public Works
1303 North Franklin Street
Mount Pleasant, MI 48858

Date Issued: October 26, 2015

Intent:

1. To inform bidders that this project is for the partial repair and painting of the No. 1 clarifier.
2. To change the specifications to allow for the use of 3M™ ScotchKote™ (100% solids) liquid epoxy coating 323/323i.
3. To update the specifications to include: If (100% solids) liquid epoxy coating is used, a manufacturer's representative must be on-site during the application to ensure that all required environmental and equipment conditions are met for proper application of the coating.

Bid Proposal: Changed – See attached

Specifications: Updated

City of Mt. Pleasant, Michigan
BID PROPOSAL

CLARIFIER No. 1 REHABILITATION PROJECT

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

BID DATE: November 10, 2015
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	Clarifier No. 1 Partial Repair & Repaint	\$ _____
TOTAL BID		\$ _____ (Figures)

(Written)
_____ and _____/100 Dollars.

Respectfully Submitted,

Company Name _____

Address _____

City _____ ST _____ Zip Code _____

Telephone Number _____ Fax _____

Email Address _____ Date _____

Signature of Authorized Officer _____

Print or Type Name and Title _____

**CITY OF MT. PLEASANT, MICHIGAN
CLARIFIER No. 1 REHABILITATION PROJECT**

SPECIFICATIONS

The City of Mt. Pleasant is accepting bids for the inspection and rehabilitation of Clarifier #1, located at the Mt. Pleasant Water Treatment Plant, 4195 South Lincoln Road, Mt. Pleasant, Michigan, to include all the materials specified below, labor, equipment, and chemicals. Pictures of the clarifier are attached.

Overview

- A. Work consists of replacement of failed bolts, surface preparation, spot field priming, and field painting necessary to complete work.
- B. Use coating systems specified in this section to finish all clarifier components, unless otherwise indicated. Without restricting volume or generality, work to be performed under this section will include, but is not limited to:
 - 1. Exterior steel of weir box
 - 2. Interior steel
 - 3. Piping, hangers, and supports
- C. All blasting and painting work shall be completed between December 18, 2015 and February 14, 2016. The clarifier can be out of service for 28 days including cure time.

Scope of Work:

- A. High pressure water clean the entire interior surfaces of the number one clarifier (west clarifier) to remove all lime scale and sediment, and expose all coating for inspection. Remove all visible oil, grease, soil, dirt and other soluble contaminants. This includes all connecting appurtenances, including the mixing cone, inlet and outlet structures, and walkway supporting structure.
- B. Spot abrasive blast clean all rusted areas to a SSPC-SP10 near white metal blast standard. Apply two (2) coats of Tnemec Series 20 epoxy, Sherwin Williams Macropoxy 646 PW (B58 Series), or 3M™ ScotchKote™ liquid epoxy 323/323i at 3.0 to 5.0 mils DFT per coat to the blast cleaned areas. Feather all edges between repaired areas and sound coating, prior to coating application. The majority of the failed areas are in the weir troughs.
- C. **If (100% solids) liquid epoxy coating is used, a manufacturer's representative must be on-site during the application to ensure that all required environmental and equipment conditions are met.**
- D. Remove the bolted plate sections on the weir troughs, repair the crevices per this specification and reassemble after the coating is cured.
- E. After all spot repairs are completed, spray apply one full coat of Tnemec Series 20, Sherwin Williams Macropoxy 646 PW (B58 Series), or 3M™ ScotchKote™ liquid epoxy 323/323i at 3.0-5.0 mils DFT (or greater depending on the manufacturers requirements) to the entire weir trough.
- F. Contain all dust and grit in the work area and prevent their entry to other areas of the plant or into the fill outlet pipes on the clarifier.
- G. Remove and properly dispose of all waste abrasive and paint chips at project conclusion.
- H. Maintain suitable environmental conditions for application of coatings per the manufacturer's recommendations.

Submittals

A. Product Data

1. Submit manufacturer's literature describing products to be provided, giving manufacturer's name, product name, and product line number for each material.
2. Submit technical data sheets for each coating, giving description data, curing times, mixing, thinning, and application requirements.
3. Submit color charts showing manufacturer's full range of standard colors.

B. Quality Assurance Submittals

1. Certificates

- a. Provide manufacturer's certification that products to be used comply with specified requirements and are suitable for intended application.
- b. Submit listing of not less than five (5) of applicator's most recent applications representing similar scope and complexity to project requirements. List shall include the following information:
 - i. Project name and address
 - ii. Name of owner
 - iii. Name of contractor
 - iv. Name of engineer
 - v. Date of completion

2. Manufacturer's Instruction

Submit manufacturer's installation procedures, if not on product data sheets, which shall be basis for accepting or rejecting actual installation procedures.

Quality Assurance

A. Qualifications

1. Applicator shall be trained in application techniques and procedures of coating materials and shall demonstrate a minimum of five (5) years successful experience in such application.
2. Maintain a crew of painters who are fully qualified throughout the duration of the application.
3. Single source responsibility
 - a. Paint shall be of a single manufacturer
 - b. Secondary materials, which are produced or are specifically recommended by coating system manufacturer, may be used.

B. Pre-Construction Meeting

1. Schedule a meeting, to be held on-site, before field application of coating system begins.
2. Meeting shall be attended by Contractor, Owner's representative, engineer, coating applicator, and manufacturer's representative.
3. Topics to be discussed at meeting shall include:
 - a. A review of the contract documents and deviations or differences to be resolved;
 - b. Environmental conditions, surface conditions, surface preparation, application procedures, and protection following application;
 - c. Which areas on-site will be available for use as storage and working area.

4. Prepare and submit a written report of pre-construction meeting to parties in attendance. Report shall be submitted within three (3) days following the meeting.

Preparation

A. Protection

1. Take precautionary measures to prevent fire hazards and spontaneous combustion. Remove empty containers from site at completion of each day's work.
2. Provide drop cloths, shields, and other protective equipment.
3. Protect elements surrounding work from damage or disfiguration.
4. As work proceeds, promptly remove spilled, splashed, or splattered materials from surfaces. Leave storage area neat and clean at all times.
5. Provide protection to contain sand and dust within the clarifier. The contractor shall remove all sand from the building.

B. Metal Structure Repair

1. Replace bolts on sludge cone
2. Repair rust on steel weir box
3. Repair sludge cone metal as required

C. Surface Preparation

1. General Requirements
 - a. Prior to application of paint, surfaces shall be prepared to receive specified paints system in compliance with these specifications.
 - b. Surfaces to be coated shall be clean, dry and free from dust and any foreign matter that might adversely affect adhesion or appearance.
2. Ferrous Metal Surfaces
Field welds and touch-ups shall be prepared to conform to specified surface preparation standards.
3. Galvanized Steel Surfaces
 - a. Solvent clean metal to remove contamination and oils in compliance with SSPC-SP1.
 - b. Brush blast to abrade the surface

Application

A. General Requirements

1. Apply coating systems in compliance with manufacturer's instructions and using application method best suited for obtaining full, uniform coverage and hide of surfaces to be coated.
2. Work shall be implemented in compliance with applicable sections of AWWA D102 latest revision.
3. Apply primer, intermediate, and finish coats to comply with wet and dry film thicknesses and spreading rates for each type of material as recommended by manufacturer and in accordance with SSPC-PA2.
4. Number of coats specified shall be minimum number acceptable. Apply additional coats as needed to provide a smooth, even application.

5. Closely adhere to re-coat times recommended by manufacturer. Allow each coat to dry thoroughly before applying next coat. Provide adequate ventilation for tank interior to carry off solvents during the drying phase.
6. Employ only application equipment that is clean, properly adjusted, and in good working order, and of type recommended by the coating manufacturer.
7. After surface preparation, spot primer on interior weld seams shall be brush applied.

B. Thinning

Thinning requirements for specified products are to be found in the paint manufacturer's printed data sheets, and are to be followed strictly.

C. Curing, Disinfection, and Filling of Clarifier

1. Provide adequate ventilation for proper drying and curing of paint on interior surfaces, and which will remove solvent vapors. For solvented coatings, provide ventilation during coating evaporation stage in confined or enclosed areas in accordance with AWWA D102-2011, Section A.7.6.
2. Following final application, tank shall not be disinfected or filled until coating system is fully cured.
3. Refer to applicable product data sheets(s) for dry time/temperature requirements. Disinfection, if specified, shall be in compliance with AWWA C652, or as instructed by the engineer.

One Year Anniversary Inspection

- A. Owner shall set a date for a one year inspection
- B. Owner will be responsible for draining the tank prior to the inspection. Owner will be responsible for system operation and pressure maintenance during the inspection and repair, if any.
- C. Inspection will be attended by Owner's representative, engineer, and painting contractor.
- D. Repair deficiencies in coating systems as determine by the engineer in accordance with coating manufacturer's instructions.

Contacts

Bidders are advised to visit the site prior to submitting a bid. To schedule a visit, contact Malcolm Fox, Water Department Supervisor, at (989) 779-5426, or Jim Rabedioux, Assistant Supervisor, at (989) 779-5427.

Dixon Engineering will provide inspection services for this work. Direct all questions regarding the coordination of inspection to Ira Gabin, Project Engineer, at (616) 374-3221, ext. 303.