

## **ADDENDUM #1 and PREBID MEETING NOTES**

### **CITY OF DOWAGIAC SECONDARY CLARIFIER REPLACEMENTS PROJECT**

1. Introductions – Everyone introduced themselves and organization they represented. Please see attached sign in sheet.
2. Bidders were reminded of the following items from the Advertisement for Bids.  
Bid Due Date 4/11/2017 2:00 pm Local Time City Hall  
Bid Bond 5%  
Performance Bond 100% of bid amount, Labor and Material Bond 100% of bid amount.
3. Bidders were reminder that the Liquidated Damages are \$500/ calendar day for missing completion date. However they should indicate in their bid if they feel the completion date should be revised and why.
4. Permits – Bidders were advised that a MDEQ Permit Application has been submitted but the permit has not been issued yet, and that no work can begin on site until the permit is issued.
5. Reviewed the Schedule of Drawings  
Design 160751 sheets 01 – 02,  
Reference Drawings, as listed
6. Reviewed the following Project Specifications Items. The current project completion date is Nov 30, 2017. Based on indicated supplier lead times this may not leave enough time to install it after equipment arrives.

Electrical work is basically to disconnect for demolition, and reconnect the new equipment for operation in accordance with manufacturer's requirements.

Clarifier work is to gut and replace the internal equipment of the clarifier including the access platform. It was pointed out the access platforms were modified from the original configuration.

7. Proposed Items for Discussion
  - a. Equipment Manufacturers in addition to the specified Walker Products clarifier, Kusters Water has submitted their model HBSL which was accepted as an "or equal". Westech's rep has contacted us but failed to submit a pre-approval package before

this meeting. The successful bidder may after the bids are opened submit an item to be reviewed as an "or equal" but rejection of the submittal will not relieve Contractor from supplying the specified products at bid costs.

- b. Painting Preference – Walker Products rep requested that equipment be supplied with a prime coat of paint only and the contractor field paint the final coat after erection. After discussions with contractor's they agreed that a field painted final coat would look better than touch up. See paint specs attached.

8. Questions / Comments were then taken from the Contractors.

- a. Q1 - What electrical equipment on the walkways should be reused?  
A1 – All electrical components from the edge of the tank concrete to the drive units shall be replaced with new and not reused. Disconnects and push buttons shall be housed in stainless steel boxes. The emergency signal lights shall also be replaced.
- b. Q2 – Should the starters which have caused issues in the past also be replaced?  
A2 – Yes, according to Mr. Bradford who was familiar with the issue.
- c. Q3 – Will the new drives be the same Horsepower as the existing?  
A3 – Although the same equipment specifications as the original have been proposed this will have to be determined / confirmed by the manufacturer of the equipment purchased and included in your bid if necessary.
- d. Q4 – When previously emptied it was noticed that the Hydrostatic Relief Valves did not function properly. Do we want these valves repaired or replaced?  
A4 – After looking at the plans it appears that these valves are just bolted to a flanged pipe embedded in the wall and would be more economical to replace than repair. Therefore the contractor shall include replacement of these valves with his bid.

9. Questions / Comments were taken from the City.

- a. C1 – The plant needs to keep both clarifiers in service until after Labor Day (9/4/17) so replacement cannot start before that date.
- b. C2 – The plant personnel will shut down and initially pump out the clarifiers. Any additional cleaning or pumping needed after that will be up to the contractor to perform at their expense.

- c. C3 – Only 1 clarifier can be out of service at any time therefore the first clarifier will need to be back in service for 24 hours before the second clarifier can be taken out of service.
- d. C4 – Plant also requested that the contractors confirm that all equipment is on site and ready to install before clarifier is taken out of service so there is no extra down time waiting for deliveries.
- e. Q1 – How long do the contractors think it will take to complete one clarifier before the next one can be started?  
A1 – The contractors felt the actual construction work would take approximately 3 weeks plus paint curing time. They also mentioned that getting service personnel scheduled to be on site has taken up to five weeks.

10. The contractors then went out to the secondary clarifiers and took photos and familiarized themselves with the work area.

The bidder hereby acknowledges receipt of this Addendum #1 and shall include a signed copy with their bid.

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Company	Date
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Signature	Title
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Print or Type Name	



## **PROJECT SPECIFICATIONS**

### **FOR**

### **PAINTING**

Revised 3/23/17

#### **Description**

For this item for Painting, the CONTRACTOR shall furnish all labor, tools, equipment and materials as necessary to complete the work as shown on the plans and as specified herein.

#### **Work Included**

The work included under the painting item includes preparing surfaces and painting of clarifier tank internals, clarifier walkways and railings, and appurtenances.

Clarifier tank internals include all iron and steel parts – below the elevation of the walkway platforms. The clarifier walkways include the walkway, kick plates, railings, drive units and the railings around the tanks; in other words all items not expected to be splashed or submerged in the tank wastewater.

#### **Cleaning**

All iron and steel surfaces to be painted shall be thoroughly cleaned to remove all mill scale, rust, old paint, dirt, grit, grease, chemicals, ice and surface contaminants. Blasting cleaning shall be accomplished using steel shot to produce a profile for optimum adhesion of the primer. New items furnished by the CONTRACTOR shall be cleaned and prime painted in the shop in accordance with the requirements of this specification.

#### **Cold Weather Requirements**

No painting shall be done when the temperature is below 50 degrees F or during inclement weather or until moisture on surfaces has completely disappeared. If necessary, sufficient heating and ventilation shall be provided to keep the atmosphere and all surfaces to be painted dry and warm until the paint has hardened. Such heating and ventilation shall be supplied by the CONTRACTOR at their expense.

#### **Application**

All priming, painting, and finishing shall be done by skilled mechanics, in conformance with the paint manufacturer's instructions. Painting and finishing shall be evenly applied at a rate to achieve the specified dry film thickness. Any deficiencies found in film thickness shall be corrected by the application of an additional coat of paint. All coats shall be allowed to dry at least 24 hours before the next coat is applied and then only if thoroughly dry.

Any paint splashed, spilled, or otherwise applied to an unintended surface shall be immediately and completely removed to the satisfaction of the ENGINEER. Any painting found to be defective shall be removed and the surface repainted. Prior to final acceptance of the work, all damaged paint surfaces shall be cleaned and repainted or touched up as directed by the ENGINEER.

Contractor shall field touch-up all scratches, marks and bruises to shop applied primer or coatings, prior to all finish painting applied by the contractor in accordance with this item.

All items such as motors, reducers and equipment completely shop assembled and ready for installation shall be given one (1) shop coat of the equipment manufacturer's machinery enamel.

#### Painting Schedule

Tank Internals – this includes all iron and steel (non stainless steel) items inside and below the water level of the tanks - shall meet the following requirements:

Surface Prep: SSPC SP10 Near-White Blast Cleaning

Primer: Tnemec Series 66 Hi-Build Epoxoline at 2.0 – 3.0 mils DFT

Intermediate: Tnemec Series 66 Hi-Build Epoxoline at 2.0 – 3.0 mils DFT

Finish: Tnemec Series 66 Hi-Build Epoxoline at 2.0 – 3.0 mils DFT

Total System: 6.0 – 9.0 mils DFT

Color: Weathered Bark (brown or dk brown)

Walkways and Railings – this includes all iron and steel items outside or above the water level of the tanks - shall meet the following requirements:

Surface Prep: SSPC SP6 Commercial Blast Cleaning

Primer: Tnemec Series 66 Hi-Build Epoxoline at 2.0 – 3.0 mils DFT

Intermediate: Tnemec Series 66 Hi-Build Epoxoline at 2.0 – 3.0 mils DFT

Finish: Tnemec Series 1074 Endura- Shield II at 2.0 – 3.0 mils DFT

Total System: 6.0 – 9.0 mils DFT

Color: Weathered Bark (brown or dk brown)

#### Materials

All paint shall be supplied by Tnemec Company or equal. The CONTRACTOR shall submit a painting schedule to the ENGINEER, including color samples, type of paint, manufacturer's names and numbers, and analyses of the paints he proposes to use. ENGINEER'S approval of paints and color selection shall be obtained prior to ordering paints.

All paint used shall be supplied by only one manufacturer and delivered to the work site in the original unbroken containers holding not more than five gallons each, with the manufacturer's label and formula of contents plainly printed thereon.

#### Measurement

The Painting item will not be paid for separately but is to be included in the lump sum price bid for the Secondary Clarifier Replacements.