

**Waterford Township  
5200 Civic Center Dr.  
Waterford, MI 48329**

Separate sealed Bids are solicited for the following project:

Project Name:           **1,500,000 Gallon Toroellipse (Cass Lake Tank)  
Exterior Overcoat  
Wet Interior Repaint  
Dry Interior Partial Repaint  
and Miscellaneous Repairs**

Note: This project name shall be understood to include the entire scope of project as defined and detailed by these specifications.

Tank Information:

The structure is a 1,500,000 gallon toroellipse elevated water storage tank with a low water line of 88 ft. located at 684 Cass Lake Rd., Waterford, Michigan.

Scope of Work:

Exterior: High pressure water clean (5,000 to 10,000 psi), spot power tool clean to a SSPC-SP11 standard, apply a two (2) coat tinted aluminum alkyd system, and caulk unsealed antenna cable penetrations on the roof.

Wet Interior: Abrasive blast clean to a SSPC-SP10 near white metal standard, apply a three (3) coat zinc epoxy system, and apply a polyurethane caulk to the roof lap seams. The cathodic protection system shall be removed and reinstalled by the owner's vendor, coordination and payment is the contractor's responsibility.

Dry Interior: Abrasive blast clean the entire tops of the top platforms (including 1 ft. up the riser wall), the step-off platform, the riser baseplate, the access tube and spot failures throughout to a SSPC-SP6 commercial standard, and apply a three (3) coat epoxy system to the access tube, a two (2) coat epoxy system the top of the top platform, and a spot two (2) coat aluminum alkyd system to the rest of the prepared surfaces.

Dry Interior Alternate: Abrasive blast clean the entire dry interior to a SSPC-SP6 commercial standard, and apply a three (3) coat epoxy system to the access tube and bowl, and a two (2) coat epoxy system to the rest of the prepared surfaces.

Foundation: Grout repair, water clean the concrete, and apply a two (2) coat epoxy system.

Repairs:

- 1)     Replace manway gasket.
- 2)     Replace wet interior roof hatch.
- 3)     Replace wet interior ladder.

- 4) Install roof painter's rail.
- 5) Install bowl rigging couplings.
- 6) Replace section of the siphon pipe.
- 7) Modify the wet interior platform.
- 8) Replace dry interior and aviation light bulbs.
- 9) Remove abandoned lighting and equipment from the wet interior.
- 10) Install antenna conduit and patch hole in the roof.
- 11) Tighten anchor bolts.

Separate sealed bids will be received by the Owner and then publicly opened and read aloud at:

Bid Opening Site:     **Waterford Township Hall, 1<sup>st</sup> Floor Auditorium, 5200 Civic Center Dr., Waterford, MI 48329**

Bid Opening Date:    **July 11, 2017**

Bid Opening Time:   **2:00 P.M. (local time)**

The SPECIFICATIONS/PLANS may be examined at the following locations:

Construction Association  
43636 Woodward Ave.  
Bloomfield Hills, MI 48858

Builders Exchange  
1240 E. Saginaw  
Lansing, MI 48909

Central Michigan Plan Room  
2026 Independence Dr.  
Mt. Pleasant, MI 48858

At the OFFICE of the ENGINEER and at the OFFICE of Russell Williams, Utilities Superintendent.

Copies of the SPECIFICATIONS/PLANS and PROPOSAL FORMS may be obtained at the office of DIXON ENGINEERING, INC., 1104 Third Avenue, Lake Odessa, Michigan, 48849 upon payment of **\$60.00** (handling charge for each set). Payment for SPECIFICATIONS should be made to Dixon Engineering, Incorporated. **There will be no refund of handling charge for return of specification packages.** Each BIDDER must deposit with their BID, Security in the amount, form, and subject to the conditions provided in the INFORMATION FOR BIDDERS. The OWNER reserves the right to accept any PROPOSAL, to reject any or all PROPOSALS, and to waive any irregularities in any PROPOSAL. No BIDDER may withdraw their BID within sixty (60) days after the actual date of the opening thereof.

### **SCHEDULE and LIQUIDATED DAMAGES**

The Contractor shall abide by the following schedule:

Commence work on or after September 5, 2017.

Substantial Completion by October 27, 2017 including cure and disinfection time.

Alternate Spring Schedule

Commence work on or after April 9, 2018.

Substantial Completion by June 8, 2018 including cure and disinfection time.

The tank may be out-of-service a maximum of 45 days.

For liquidated damages, 45 days out-of-service establishes Substantial Completion date. Liquidated damages at \$750/calendar day shall apply after this date. Ready for Final Payment Date shall be thirty (30) days after date Substantial Completion was scheduled or adjusted by Change Order, or earlier if actual date. Liquidated damages after Ready for Final Payment Date of \$250/day shall apply. Liquidated damages are cumulative if damages from Substantial Completion and Ready for Final Payment overlap.

#### **MISCELLANEOUS**

- A. Coordinate with antenna company work to be done. The antennas will remain in place but the cable routing is to be altered per these specifications. The welding will need to be performed, the antenna company must relocate the cables than the exterior will be coated.
- B. The antenna owners will temporarily remove the antennas and cables prior to the start of the project.
- C. Contractor to protect all sensitive equipment during all water cleaning, blasting, and painting.