



# PROJECT MANUAL

## 250,000 GALLON WATER TOWER REHABILITATION

CITY OF TONKA BAY | HENNEPIN COUNTY | MINNESOTA

May 12, 2020

Prepared for:  
City of Tonka Bay  
4901 Manitou Road  
Tonka Bay, MN 55331

WSB PROJECT NO. 016001-000



# PROJECT MANUAL

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**250,000 GALLON WATER TOWER REHABILITATION**

**WSB PROJECT NO. 16001-000**

**CITY OF TONKA BAY  
HENNEPIN COUNTY, MINNESOTA**

**MAY 12, 2020**

**Prepared By:**



# CERTIFICATION

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of Minnesota.

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Date: May 12, 2020                      Greg F. Johnson, PE                      Lic. No. 26430

DRAFT

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### 250,000 GALLON WATER TOWER REHABILITATION

#### FOR THE CITY OF TONKA BAY HENNEPIN COUNTY, MINNESOTA

NOTICE IS HEREBY GIVEN that bids for the construction of the 250,000 Gallon Water Tower Rehabilitation will be received on-line through QuestCDN vBid™ until Wednesday, June 3, 2020, at 2:00 pm local time. Immediately following expiration of the time for receiving bids, representatives of the City of Tonka Bay will publicly view bids at an online bid opening meeting. Those interested in viewing the online bid opening are welcome to join the meeting by logging on to <https://zoom.us/join> and enter:

**Meeting ID:** 928 1581 2955

**Password:** 959393

The as-read on-line bid results will be available at [www.questcdn.com](http://www.questcdn.com) following the bid opening.

The Project includes the furnishing of all labor and materials for the construction complete in-place, of the 250,000 Gallon Water Tower Rehabilitation.

The provisions of MINN. STAT. 16C.285 Responsible Contractor are imposed as a requirement of this contract. All bidders and persons or companies providing a response/submission to the Advertisement for Bids of the City of Tonka Bay shall comply with the provisions of the statute.

Information and Bidding Documents for the Project can be found at [www.questcdn.com](http://www.questcdn.com). Bidding Documents may be downloaded from the website for a nonrefundable fee of \$45 by inputting Quest project #7065661 on the website's Project Search page.

The website will be updated periodically with addenda, lists of registered plan holders, reports, and other information relevant to submitting a Bid for the Project. All official notifications, addenda, and other Bidding Documents will be offered only through the website [www.questcdn.com](http://www.questcdn.com). Neither Owner nor Engineer will be responsible for Bidding Documents, including addenda, if any, obtained from other sources.

Bids will only be accepted via the electronic bidding service through QuestCDN.

The City Council reserves the right to reject any and all bids and to waive any bids received without explanation. No bid may be withdrawn for a period of 60 days.

For all further requirements regarding bid submittal, qualifications, procedures, and contract award, refer to the Instructions to Bidders that are included in the Bidding Documents.

DATED: May 12, 2020

BY ORDER OF THE CITY COUNCIL

s/s Kathy Laur  
City Administrator  
Tonka Bay, MN

**PUBLISHED IN THE:** Sun Sailor:  
Finance and Commerce:

May 21, 2020 and May 28, 2020  
May 21, 2020 and May 28, 2020

Bidder:	
Address:	
City, State, Zip:	
Email Address:	Telephone No.:

**BIDDER INFORMATION FORM**  
250,000 GALLON WATER TOWER REHABILITATION

Opening Time: 2:00 PM  
Opening Date: Wednesday, June 3, 2020

This Bid is submitted electronically to QuestCDN vBid™ for:

City of Tonka Bay  
4901 Manitou Road  
Tonka Bay, MN 55331

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices in this Bid, within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
2. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.
3. In submitting this Bid, Bidder represents the following:
  - a. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
  - b. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
  - c. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
  - d. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings; and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
  - e. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (3) Bidder's (Contractor's) safety precautions and programs.
  - f. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
  - g. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
  - h. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
  - i. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
  - j. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.
4. Bidder will perform the Work at the unit prices submitted electronically via QuestCDN vBid™. The bid item list that follows this section is provided for information only. The Owner has the right to eliminate any bid item from the Contract at no additional cost to the contract.

5. **ALTERNATE BID**- Bidder shall provide a price to add or deduct for the following bid alternate. The Owner will select which bid alternate, if any, and ADD/DEDUCT this amount from the base bid when determining the lowest responsible bidder.

**MANDATORY BID ALTERNATE NO. 1**- Provide a substantial completion and final completion date of September 15, 2021 and October 15, 2021, respectively, for an ADD/DEDUCT (for deduct insert a negative number on QuestCDN) from the base amount.

6. Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

7. Bidder accepts the provisions of the Agreement as to liquidated damages.

8. Bidder hereby acknowledges receipt of the following Addenda:

Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_

9. The following documents are submitted electronically with and made a condition of this Bid:

- a. Bidder Information Form;
- b. Non-Collusion Affidavit;
- c. Responsible Contractor Verification and Certification of Compliance and;
- d. Bid Security.

BIDDER: *[Indicate correct name of bidding entity]*

By: \_\_\_\_\_  
*[Signature]*

\_\_\_\_\_  
*[Printed name]*

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Address for giving notices: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest: \_\_\_\_\_  
*[Signature]*

\_\_\_\_\_  
*[Printed name]*

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Federal Employer ID Number (EIN): \_\_\_\_\_

Item	Description	Unit of Measure	Quantity
<b>General Conditions</b>			
1	Mobilization and site maintenance.	LS	1
<b>Interior Wet Structural</b>			
2	Provide miscellaneous grinding.	Hours	50
3	Provide miscellaneous welding.	LF	30
4	Seal weld the inside of the joint between the roof plate and the roof manways. See photos 2 and 3 in the inspection report in Appendix A.	LS	1
5	Seal weld the overlapping plate joint seam on the roof dollar plates. See photos 4, 5 and 6 in the inspection report in Appendix A.	LS	1
6	Reweld the seams around the overflow vortex breaker. Grind and radius edges of the weir box. See photos 7 and 8 in the inspection report in Appendix A.	LS	1
7	Seal weld the bottom side of the drywell tube stiffener rings. See photos 9 and 10 in the inspection report in Appendix A.	LS	1
8	Remove the excessive safety climb cable on the interior ladder. See photo 11 in the inspection report in Appendix A.	LS	1
9	Remove the exist drain plug and replace with a stainless-steel frost-free drain valve and a connection to the overflow pipe. See Detail E in the appendix of the inspection report and photos 12 and 13 in Appendix A.	LS	1
<b>Interior Wet Coatings</b>			
10	Complete sandblasting and recoating of the interior wet per specifications.	LS	1
<b>New Tank Mixer</b>			
11	Furnish and install a new mixer including SCADA control and all electrical conduits, wiring, and hardware per specifications.	LS	1
<b>Interior Dry Structural</b>			
12	Remove the existing 12" x 18" oval manway in the drywell tube. Install one new 24-inch diameter, pressure style manway in the same location. The new manway shall be installed approximately 30-inches from the bottom of the bowl. See Drawing No. 10 in the appendix of the inspection report and photos 21 and 22 in Appendix A.	LS	1
13	Replace the existing safety climb cables on all the interior of ladders with a new DBI safety cable System and include two (2) new full body harnesses. See DBI brochure in the appendix of the inspection report in Appendix A.	LS	1
14	Remove the drain valve piping that connects to the overflow pipe. See photo 23. Install a connection in the overflow pipe for the new frost-free drain valve. See Detail E in the appendix of the inspection report in Appendix A.	LS	1
15	Replace insulation and jacket on the entire length of inlet/outlet pipe and install new insulation and an aluminum jacket covering to the complete inlet/outlet pipe. See specifications and photo 24 in the inspection report in Appendix A.	LS	1
16	Install a new 24-inch diameter, pressure style manway in the cone plates and a ladder from the upper platform to the cone plates for access to this manway. See Drawing No. 10 in the appendix of the inspection report in Appendix A.	LS	1
17	Seal weld a circular angel around the outer edge of the upper platform. Install a 2-inch drain coupling in the platform at the lowest point of the platform where water congregates and a connection to the overflow pipe. See Drawings 16 and 18 in the appendix of the inspection report in Appendix A.	LS	1
18	Install a 4-inch high collar around the inlet/out and the overflow pipes on the upper platform. Plug weld all drain holes in the upper platform. See photo 25 in the appendix report in Appendix A.	LS	1
<b>Interior Dry Coatings</b>			
19	Complete sandblasting and recoating of the interior dry surfaces including the inlet/outlet pipes of the tower and the valve vault/pit piping per the specifications. See photos 26 through 34 in the inspection report in Appendix A.	LS	1
<b>Exterior Structural</b>			
20	Install a new 24-inch diameter frost-free aluminum mushroom vents with removable covers. See Photos 35 and Drawing No. 6 in the appendix of the inspection report in Appendix A.	LS	1
21	Remove the 4-inch high collar around the drywell tube and 6-inches of the dollar plate. Install a ¼-inch thick plate over the opening and seal weld both interior and exterior to the drywell tube and roof plates. See photos 35 and 36 in the inspection report in Appendix A.	LS	1
22	Remove and relocate the hinges on the roof access manway so when the manway cover is opened it does not hit the dry well tube lid. See Photo 37 in the inspection report in Appendix A.	LS	1
23	Remove the existing 11 foot diameter roof handrail and install a 14' diameter hand railing. See Drawing No. 14 and photos 38 and 39 in the inspection report in Appendix A.	LS	1
24	Remove the existing steel pedestrian door and door frame. Furnish and install a new heavy-duty fiberglass door with pebble grain finish and aluminum door frame in the inspection report in Appendix A.	LS	1

25	Cut out the welded plate on the interior of the overflow pipe and replace the screen. See photo 40 in the inspection report in Appendix A.	LS	1
26	After reconditioning, replace all damaged, loose or missing concrete grout under the base plate with non-shrink 3000 PSI grout.	LS	1
27	After recondition epoxy chalk the openings around the anchor bolts. See photo 49 in the inspection report in Appendix A.	LS	1
<b>Exterior Coatings</b>			
28	Provide full exterior containment system with a roof bonnet and ground cover to contain blasting and painting operations.	LS	1
29	Complete sandblasting and recoating of the exterior per the specifications. See photos 41 through 49 in the inspection report in Appendix A.	LS	1
30	Replace the lettering "Tonka Bay" in kind in two locations on the tank.	EA	2
<b>Disinfection</b>			
31	Disinfection per AWWA standards.	LS	1
<b>TOTAL BASE BID</b>			
33	<b>ALTERNATE 1 – Substantial Completion (9/15/21) and Final Completion (10/15/21) ADD/DEDUCT</b> (enter negative number for deduct)	LS	1
<b>TOTAL ALTERNATE 1</b>			

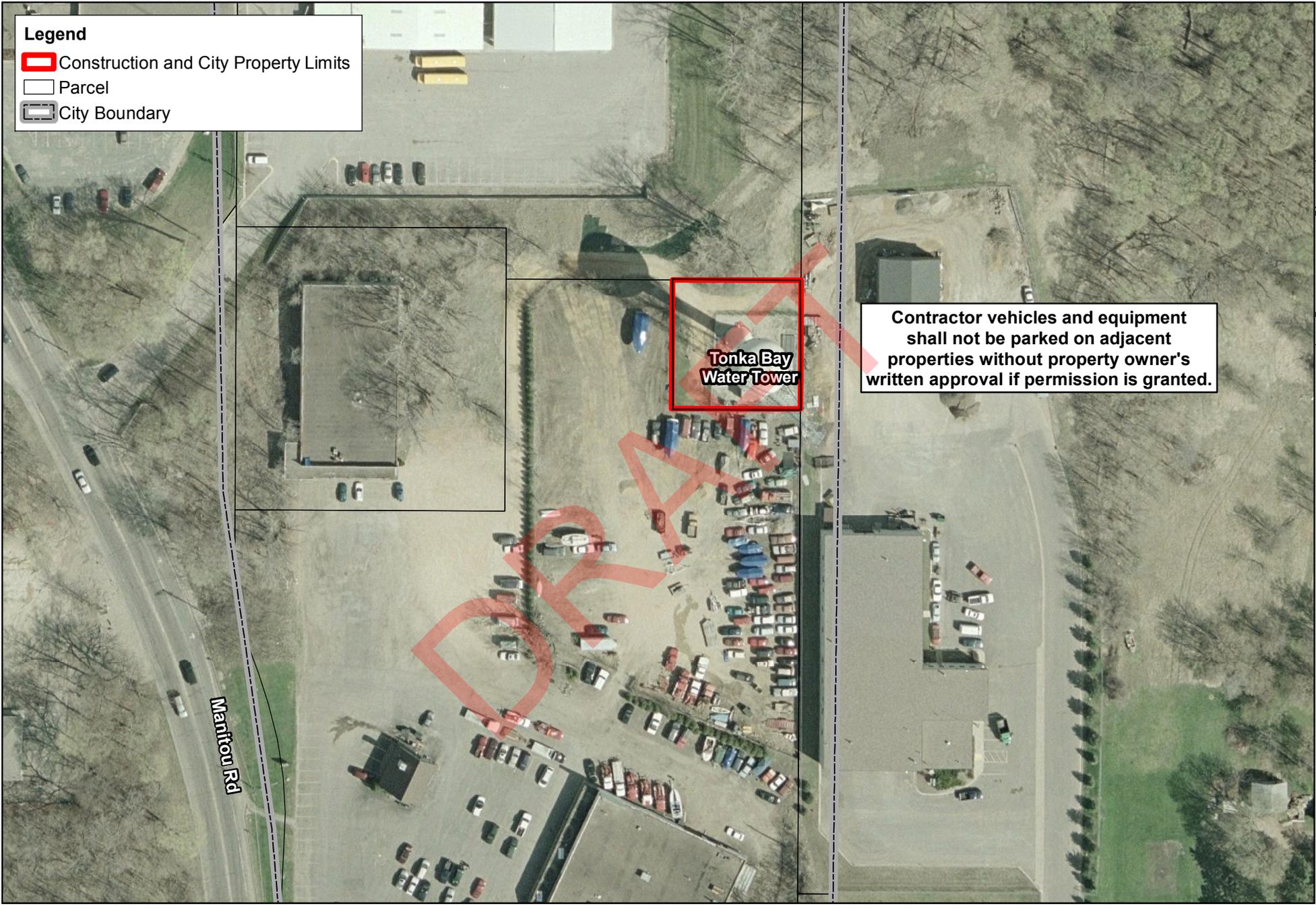
Notes:  
 LS = Lump Sum  
 EA = Each  
 LF = Linear Feet

**The Owner has the right to remove any bid item from the contract at no additional cost to the contract**

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**Legend**

-  Construction and City Property Limits
-  Parcel
-  City Boundary



**Contractor vehicles and equipment shall not be parked on adjacent properties without property owner's written approval if permission is granted.**

**Tonka Bay Water Tower**

Mantou Rd



**Site Map**  
 250,000 Gallon Water Tower Rehabilitation  
 City of Tonka Bay



0 100 Feet  
 1 inch = 100 feet



## DOWNLOAD COMPLETE DOCUMENTS

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To download a complete set of DRAFT bidding documents please follow the link below:

<https://wsbeng.sharefile.com/d-s5f4cb22219e48398>