



**LAKE HAVASU CITY**  
**LAKE HAVASU CITY, ARIZONA**

**ADDENDUM NO. 1**

**TANK N-2A-07 REPLACEMENT**  
**Project No. WT9**

**DATED: APRIL 29, 2021**

This addendum forms a part of the contract described above. The original Contract Documents in full force and effect are modified by the following changes. Addendum No. 1 will take precedence over any conflicting provisions in the prior documents.

Each bidder shall acknowledge receipt of this addendum and by affixing its signature on the acknowledgement form attached, by noting this Addendum on the Bid Form and by attaching this Addendum and/or acknowledgement to its bid.

The following changes are to be made and become part of the Bid/Contract Documents. The changes are as follows:

By:

Date: April 29, 2021

Jonathan Tull, PE  
Atkins

**ATKINS**



EXPIRES 3-31-2023

## ACKNOWLEDGEMENT

The undersigned bidder acknowledges receipt of this addendum and the Bid Submitted is in accordance with the information, instructions and stipulations set forth herein.

**Proposal received without signed acknowledgement of Addendum will be cause for rejection.**

Addendum No. 1 (Dated April 29, 2021) Acknowledged By:

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Company Name

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By Authorized Representative's Name & Title (Print or Type)

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Signature of Authorized Representative

## **Item No. 1**

The following questions were received from bidders. Answers are provided here in by the OWNER and ENGINEER.

- 1. Question:** *“I am reaching out to receive information on a pre-bid meeting, I am not seeing any information that indicates that the City will be hosting a pre-bid meeting.”*

**Answer:** The City decided not to hold a pre-bid meeting for this project. All questions that arise relating to this solicitation shall be submitted per instructions listed in Specification Section 00020.

- 2. Question:** *“Section 00700 General Conditions, Article 29.0 Subcontracting, Paragraph 29.2 limits the amount of work subcontracted to 49%. The general conditions appear to be the City's standard General conditions, not written specifically to this individual project. Does this apply to this project?”*

**Answer:** Section 00700 General Conditions, Article 29.0 Subcontracting, Paragraph 29.2 is revised to “ The Contractor shall not award Work to Subcontractor(s), in excess of seventy-five (75%) percent of the Contact Price, without prior written approval of the Owner”.

- 3. Question:** *“If this project is not funded through SRF/AIS, would you please consider adding as alternative bid to include an AWWA D103-09 std Glass-Fused-to-Steel NSF61 certified bolted tank as per attached details? It will be more economical and a lot less future maintenance. No welding or field coating is required. The tank service lifespan is about 50-years. Welded tanks require re-coating every 10-years or so and it costs a fortune.”*

**Answer:** This project was designed and is to be constructed as an AWWA D100 Welded Carbon Steel Tank for Water Storage.

- 4. Question:** *“Also in the dome roof specifications section 05162 para. 2.7 Roof-Shell Seal is requesting to provide PTFE seal and bolt it to the tank wall and roof. If they are requesting to bolt this very unusual seal onto a welded tank which does not have pre-cut holes then it's easier to achieve it on the bolted AWWA D103 tank.”*

**Answer:** Installation of this roof-shell seal type has been successful on prior City AWWA D100 Welded Carbon Steel Tank connections.

- 5. Question:** *“Sand impregnated Oil is not commercially available in the Lake Havasu region. If we have to mix oil into sand this presents an environmental concern. Can bare sand be utilized? If lead is encountered shall that be considered a changed condition?”*

**Answer:** Oiled sand is recommended in AWWA D100-05 Sect 12.6 and will be a preference for this Project. Bare sand will not be acceptable, as it does not provide sufficient protection for the underside of the tank floor. Construction activities that impact the existing soil and groundwater qualities shall not be allowed. Existing soils within the Project Site that become lead contaminated during the construction activities should be remediated or

replaced at no cost to the City. Please refer to the answer to Question 8 for known lead conditions.

- 6. Question:** *“Can we assume that the 16” butterfly valves on the interconnect and the inlet/outlet? Is there a valve to isolate the 8” line to surge riser allowing new 8” line installation?”*

**Answer:** Yes. 16” butterfly valves should be installed on both the inlet/outlet and the interconnect connection lines per detail 1 and detail 2 of sheet CD-2.

There is an existing valve that that can be used to provide isolation on the existing 8” DIP pressure relief line. Contractor shall coordinate with City water operations staff for line isolation in accordance with project specifications.

- 7. Question:** *“The stated completion time is too short for the scope of work on this project. Can the completion time be extended?”*

**Answer:** City has extended the construction completion timeframe to 240 calendar days.

- 8. Question:** *“Can you furnish an inspection report for the existing tank and site piping that is to be demo’d? We need to know if there are any hazardous coatings or materials such as lead or asbestos present, where they are and in what concentrations. Also what are the dimensions of the tank that is to be demo’d?”*

**Answer:** Asbestos test results are not available. Limited heavy metal test results for the existing tank are available in the attached “Evaluation of the 1,000,000 Gallon Steel Ground Storage Tank, “Tank N-2A-07”, Lake Havasu, Arizona November 9 and 20, 2017, 17.189.S1580.016” (confidential information on Page 20 and Page 21 have been removed). The contractor is required to assess, manage, and dispose of hazardous materials in accordance with specification section 02051.

The diameter of the tank that is to be demolished is approximately 85 feet. A detailed description of the existing tank may be found in the above-referenced evaluation report.

- 9. Question:** *“Can the percent of the Contractor’s subcontracted work in paragraph 29.2 on page 00700-25 be increased? With the scope of work on this project we will need a larger percentage for subcontracted work.”*

**Answer:** Please refer to the answer to the **Question 2** above.

- 10. Question:** *“Paragraph 1.5 A.1. on page on page 09950-4 says that the Coating Applier will be SSPC QP-1 certified. Can this Coating Applier qualification be modified to something such as: “SSPC QP-1 certified or have a minimum of ten (10) years of experience and have successfully completed at least ten (10) potable water tanks of 1,000,000 gallons in capacity or greater within the last 5 years. References and Contractors QP Certifications (if applicable) must be submitted with the bid documents.”*

**Answer:** Paragraph 1.5 A. Page 09950-4 states the minimum qualification required for this Project. Supporting documents, including copies of required certification and license and project references, shall be submitted for review.

**11. Question:** *“Please clarify paragraph 2.6 on page 09950-12. Is full containment of the tank required during abrasive blasting and coating of the tank exterior?”*

**Answer:** Full containment of the tank is not specifically required during abrasive blasting and coating of the tank exterior. However, CONTRACTOR shall provide sufficient containment to prevent blast emissions and debris from leaving the worksite. All debris retained on site shall be effectively collected for disposal.

**12. Question:** *“Based on correspondence with tank, coating and other trades on this project, 120 calendar days is not enough to complete the scope of work. Will the Owner please extend the Contract duration to 240 days?”*

**Answer:** Please refer to the answer to **Question 7** above.

**13. Question:** *“The measurement and payment description for Bid Item 8 – “16-inch line stop and bypass” outlines compensation for “hydrostatic testing and disinfection” and doesn’t apply to line stop and bypass. Please clarify the bid item description and measurement and payment.”*

**Answer:** This line item shall apply to activities as outlined in Specification 13211. Item “8. 16-inch Line Stop and Bypass” Section (on Page 126/243) delete from Section 01210 and replace with “Hydrostatic Testing and Disinfection”. ‘The quantity of “16-inch” Line Stop and Bypass” remove and replace with ‘The quantity of “Hydrostatic Testing and Disinfection”. Item “8. 16-inch Line Stop and Bypass” is also deleted from Table Schedule A in Section 00310 and replaced with “8. Hydrostatic Testing and Disinfection”. An updated Table Schedule A is attached for reference.

**14. Question:** *“Due to the amount of specialty trades required for this project including tank, coatings, electrical and cathodic scopes of work, can the requirement not to subcontract more than 49% of the work be removed?”*

**Answer:** Please refer to the answer to the **Question 2** above.

**15. Question:** *“Oil impregnated sand typically is not used due to soil contamination as well as the effects it can have on the cathodic protection system of the tank. Will the Owner allow an Aggregate base course (ABC) in lieu of oil impregnated sand?”*

**Answer:** Please also refer to the answer to **Question 5** above. There is no cathodic protection planned for installation under the tank. Accordingly, there is no adverse impact to under-tank cathodic protection.

**16. Question:** *"Spec 09950-1.6.F states, "The cost of inspection services provided by the INSPECTOR will be paid by the OWNER" Please confirm the OWNER will be paying for all coatings inspections required on the project."*

**Answer:** The City will be paying for all coating inspections required on the project.

**17. Question:** *"Spec 13211-3.1.A states in part, "Water for testing and disinfection shall be furnished by the CONTRACTOR." General Note 60 on Sheet G-1 states, "Hydrostatic Testing and Disinfection shall be conducted by the City." Please confirm the testing and disinfection of the new steel tank and piping will be performed by the Contractor utilizing water from the Owner at no charge. Upon completion of the testing and disinfection, the water in the new tank will become part of the Owners water distribution."*

**Answer:** Water is available from the Water Department at no cost to the CONTRACTOR. The CONTRACTOR shall make application and obtain a hydrant meter from the Water Department for the purpose of metering the use of water on the project. The testing and disinfection of the new steel tank and piping will be performed by the Contractor utilizing water from the Owner at no charge. Upon completion of the testing and disinfection, the water in the new tank will become part of the Owners water distribution. Other temporary utility requirements are available for download at:

[https://www.lhcaz.gov/docs/default-source/engineering-specifications/section01560.pdf?sfvrsn=f7852b7c\\_8](https://www.lhcaz.gov/docs/default-source/engineering-specifications/section01560.pdf?sfvrsn=f7852b7c_8)

**18. Question:** *"Cement Treated Base material isn't available from local suppliers. Will the Owner accept a lime treated ABC and or a 3' wide valley gutter per MAG 240? If not, please provide a full specification for the Cement Treated Base."*

**Answer:** 8" thick lime treated ABC will be acceptable as the alternative.

**19. Question:** *"Please provide lightning protection specifications and details, if required."*

**Answer:** Lightning Protection is not applicable to this Project.

**20. Question:** *"Please provide grounding requirements and details, if required."*

**Answer:** Grounding should be per City Specification Section 16450. Available to download at: [https://www.lhcaz.gov/docs/default-source/engineering-specifications/section16450.pdf?sfvrsn=ec842b7c\\_5](https://www.lhcaz.gov/docs/default-source/engineering-specifications/section16450.pdf?sfvrsn=ec842b7c_5)

**21. Question:** *"Please provide specifications for the Pressure Transmitter."*

**Answer:** Pressure transmitter shall be per City Standard Specification Section 16902. Available for download at [https://www.lhcaz.gov/docs/default-source/engineering-specifications/section16902.pdf?sfvrsn=15842b7c\\_5](https://www.lhcaz.gov/docs/default-source/engineering-specifications/section16902.pdf?sfvrsn=15842b7c_5)

**22. Question:** *“Please provide the “Geotechnical Evaluation Tank N-2A-07, Lake Havasu City, Arizona”, by Geotechnical and Environmental Services, Inc. dated December 20, 201 as outlined in Specification 13311-1.4.A. Appendix A is not included in the bid documents.”*

**Answer:** The final Geotechnical Evaluation is provided for reference.

**23. Question:** *“Please provide available as-builts of the existing tank to be demolished.”*

**Answer:** As-builts of the existing tank to be demolished are not available. However, pictures and details of the existing tank N-2A-07 and project site are available in the provided “Tank N-2A-07”, Lake Havasu, Arizona November 9 and 20, 2017, 17.189.S1580.016” as described in the answer to **Question 8** above.

**24. Question:** *“What are the dimensions and material of the existing tank foundation?”*

**Answer:** The existing tank is constructed of welded-steel and has an approximate diameter of 85 feet. The existing foundation is per AWWA D100 Type 5: Tank supported on granular berm with steel retaining ring. Refer to condition report referenced in answer to **Question 8** above.

**25. Question:** *“Does the existing tank have oil impregnated sand under the base of it?”*

**Answer:** The existing tank does not have oil impregnated sand under the base of it.

**26. Question:** *“Is there a valve on the existing 8” surge piping we will be tying into?”*

**Answer:** Please refer to the answer to **Question 6** above.

**27. Question:** *“Does the owner anticipate lead paint or asbestos being present on site and does the Owner have any prior lead and asbestos testing reports available for Contractor review?”*

**Answer:** Please refer to the answer to **Question 8** above.

**28. Question:** *“What year was the existing tank constructed and coated?”*

**Answer:** The existing tank was constructed and first coated in 1976.

**29. Question:** *“Please verify prior hazardous material sample removal and laboratory testing has not been completed but will be performed by contractor prior to demolition activities.”*

**Answer:** Please refer to the Answer to **Questions 8 and 27** above.

**30. Question:** *“Section 01610 – Site Security - States security measures Taken by contractor shall be at least equal to those typically provided by owner to protect existing facilities during normal operation. What are the typical security measures taken by owner to which the contractor shall include at a minimum in this proposal?”*

**Answer:** Typical security measures include:

- Post a strong fence around the perimeter of the site.
- Maintain a clearance area along both sides of the perimeter fence.
- Post signage that clearly states that people are not allowed into the site without proper authorization.
- Limit access within the site as much as possible.
- Establish a single entrance point for work vehicles.
- Ensure that workers and visitors have a safe parking area outside, but near the site.
- Use high-quality locks to secure the gate whenever the site is not active or otherwise occupied or supervised.
- Keep detailed records of security issues.
- Perform a check of the site and perimeter at the end of each workday.
- Make sure that all trailers, offices, sheds and gates are locked during non-work hours.
- Maintain ample light around the site to deter criminal activity at night.

**31. Question:** *“I have not found the structural detail drawings for the new 1.5-million-gallon tank walls, floor, or interior structural supporting system in the set of drawings provided (Plans N-2A-07). Are there additional drawings for the new tank?”*

**Answer:** There are no additional drawings included for the new tank N-2A-07. Tank manufacturer to provide shop drawings and structural design and calculations for the new Tank N-2A-07 per Construction Documents and Specification 13311; 1.5; B.

## **Item No. 2**

The following modifications were made to Specification Section 00310, Schedule A – Tank Replacement: Delete quantity “28,830” on line item 13. Replace with “30,000”. An updated

Section 00310, Schedule A with this change as well as modification detailed in answer to **Question 13 in Item No. 1** above, is attached.

**ATTACHMENTS:**

1. Updated Section 00310, Schedule A
2. Report: Evaluation of the 1,000,000 Gallon Steel Ground Storage Tank, "Tank N-2A-07", Lake Havasu, Arizona November 9 and 20, 2017, 17.189.S1580.016" (Confidential information on Page 20 and Page 21 removed)
3. Report: Geotechnical Evaluation Tank Design Services WT9 and WT10, 2938 Havasupai Boulevard & 3764 Yucca Drive, Lake Havasu City, Arizona.

**\*\*END OF ADDENDUM NO. 1\*\***