LAKE HAVASU CITY, ARIZONA

ADDENDUM NO. 1

Replacement and Refurbishment of the Horizontal Collector Well Pumps and Piping Project
Project B24-PW-108030-500434

DATED: OCTOBER 2, 2024

This Addendum No. 1 forms a part of the contract described above.

Item 1: Changes
The following changes are made:

A. SECTION 08000, VERTICAL TURBINE PUMPS, 2.2.D. Discharge Head, Add, "2.2.D.2, Modify existing discharge heads as required to accommodate smaller motor sizes, and potentially smaller lineshafts and headshafts. Modifications include all modifications necessary for full functionality including required modifications to the existing packing boxes and motor base mounting.

Item 2: Questions and Answers
The following questions were received from bidders. The answers are provided herein by the OWNER:

1. **Question:** *Will we be able to shut down the Horizontal Collector Well during construction?*

   Answer: Yes, it is intended for it to be shut down the whole time.

2. **Question:** *How much does the roof weigh?*

   Answer: It weighs 10 Tons.

3. **Question:** *Can the roof be left off once it is removed until the end of construction?*

   Answer: Yes, it can.

4. **Question:** *Does the roof just sit in the wall grooves or is it bolted in place?*

   Answer: There are anchors which hold the roof in place.

5. **Question:** *Is it anticipated that there will be any need for divers for the project?*

   Answer: No, it is not anticipated there will be a need for divers.

6. **Question:** *Are all three T's on the discharge pipes being replaced?*

   ANSWER: No, only pump P1's.

7. **Question:** *Does the new T pipe need to be lined?*

   Answer: No.

8. **Question:** *Where is the break in the Pump 1 tee that needs replacement?*

   Answer: The tee was removed and a blind flange installed to get the station back on line.

9. **Question:** *Is there a dimensional drawing of the discharge tee that requires fabrication?*

   Answer: Available information about the tee is provide on the as-builts attached to this Addendum.

10. **Question:** *What is happening with the old pumps/unused equipment?*

    Answer: The old pumps, motors, column assemblies will remain the property of the city and delivered by contractor to an agreed upon city yard site.

11. **Question:** *Are the pump columns all the same size?*

    Answer: Yes, the existing pump columns are all 20-inch diameter. The new pump column sizes are specified in Specification SECTION 08000, VERTICAL TURBINE PUMPS, VERTICAL TURBINE PUMPS DATA SHEET.

12. **Question:** *Please confirm that column pipe is 20" <u>OD</u>.*

    Answer: the original pump submittal dated 5/12/ 2001 indicates the pump columns are 20-inch, ASTM A53, Grade B steel. That would put the column OD at 20.000-inches.

13. **Question:** *Will the column pipe for P-1 and P-3 need to be reused?*

    Answer: The column pipes for P-1 and P-3 are to be new as specified in Specification SECTION 08000, VERTICAL TURBINE PUMPS.

14. **Question:** *To avoid galling, would 316 SS Couplings be acceptable with the 416 SS shafting?*

    Answer: Yes

15. **Question:** How long has the pumps been sitting idle?

    Answer: The pumps have been in use regularly.

16. **Question:** *When was the roof last removed?*

    Answer: The roof was last removed ten years ago.

17. **Question:** *Who removed the roof last time it was removed?*

    Answer: Sky High Crane.

18. **Question:** *Will there be any grading of the site needed prior to the mobilization of the crane? If so, will this be performed by the contractor or the owner?*

    Answer: Grading will not be needed as the roof has been removed before.

19. **Question:** *Are the new pumps the same size as the existing pumps?*

    Answer: No. The two new pumps are smaller than existing.

20. **Question:** *Will the downsized pumps need a smaller head shaft?*

    Answer: That is up to the pump and motor manufacturer/supplier.

21. **Question:** *Will the new downsized pumps be bought to match the existing pump heads?*

    Answer: The new downsized pumps will be fitted to the existing discharge heads by the Contractor. Some modifications to the existing discharge heads should be anticipated by the Contractor to adapt the smaller motors, potentially smaller headshafts, and smaller column on Pump P-1 to connect to the existing discharge heads.

22. **Question:** *What do the existing pumps weigh?*

    Answer: The estimated weight of each motor, discharge head, column assembly, and bowl assembly are listed in the original pump submittal dated 5/12/ 2001 as a total of 16,092 pounds.

23. **Question:** *Are these the original electric motors on the pumps?*

    Answer: Yes. One or more may have been rebuilt but are original.

24. **Question:** *Are there any as-builts for the facility?*

    Answer: Yes, there are and they have been attached to the addendum.

25. **Question:** *What side does the power come into the facility?*

    Answer: It comes in from the east side at the northeast corner.

26. **Question:** *What is the approximate distance between where the control panels are located, and the motors?*

    Answer: About 30 to 40 feet.

27. **Question:** *What side of the facility does the discharge pipe come out of?*

    Answer: It comes out of the west side at the southwest corner.

28. **Question:** *Is the settling from when the facility was originally constructed and how are you planning to stop future settling?*

    Answer: The cause of the settling is not known. Prevention of future settling will be managed separately.

29. **Question:** *Will the utilities be located prior to construction?*

    Answer: It is the responsibility of the contractor to call in locates.

30. **Question:** *Would a third-party engineering firm qualify as the manufacturer witness startup representative? Or, can the Contractor self-perform this task?*

    Answer: The startup representative must be an authorized technical representative of the pump manufacturer. Documentation of this authorized representation must be provided.

31. **Question:** *In the event of discharge piping misalignment during removal, due to stored energy and ground subsidence – Should we assume the need for new spool sections of discharge, or would this be a change order?*

    Answer: This would be managed through a change order.

32. **Question:** *Please verify that the suction on the new boosters will be either a bell or suction case. The specs indicate the use of a cone strainer, whereas the drawing we received shows a bell, which would usually indicate the need for a basket.*

    Answer: The new pumps shall be fitted with a bell suction with basket strainers. Change Specification SECTION 08000, VERTICAL TURBINE PUMPS, 2.2.E to read, "**E. Basket Strainer**, 1. Basket strainer shall be a diameter to meet HI standards and mounted on the pump bowls suction bell casing and shall be manufactured of stainless steel. Type 316."

ATTACHMENT 1
AS-BUILT DRAWINGS