Procurement Department Bid Office
Customer Center 1st Floor, Room 002
21 W. Church Street
Jacksonville, Florida 32202

June 10, 2016

ADDENDUM NUMBER: **Five (5)**

TITLE: **Construction for Northwest Regional Water Treatment Plant (WTP)**

JEA IFB NUMBER: **073-16**

BID DUE DATE: **June 21, 2016**

TIME OF RECEIPT: **12:00 PM**

TIME OF OPENING: **2:00 PM**

THIS ADDENDUM IS FOR THE PURPOSE OF MAKING THE FOLLOWING CHANGES OR CLARIFICATIONS:

1. CHANGE: The Bid due date has been extended from June 14, 2016 to **June 21, 2016** the time of recipet and opening will remain the same. **The period for questions has expired and will not be extended.**

BID QUESTIONS

1. **INQUIRY:** Will you please let me know if the split case pump manufacturers listed on this project are part of JEA's approved vendor list (Section 44.42.56.02)? I went through your documents online and could not find the specifics for this type of pump. If possible, we respectfully request to have Fairbanks Morse added to the manufacturers list for the Large and Small Split Case Pumps. Fairbanks has several other installations operational at JEA's facilities and pump selections for this project that exceed the engineers specification (attached curves and performance data for each pump).
   - **RESPONSE:** No, Fairbanks Morse is not on the JEA Standards List for this application and therefore will not be allowed to bid on this project

2. **INQUIRY:** Reference 005-E-201 general note A; Could these cost for services be part of the SWA or set a bid allowance amount?
   - **RESPONSE:** No SWA or Allowance will be set for these two items. As for Primary Electrical, it will be the responsibility of the Contractor provide Conduits (shown in the drawings), turned up and then JEA will set the Pad/Primary Wiring Feed to the pole and set the transformer, meter poles and meter. The Contractor will not see a cost for items addressed. As for the Communication, the Contractor will be responsible to provide conduits under Owens Road and pull fiber to land in two separate locations in the Building. JEA will be responsible to energize this fiber system at the Box on the north side of Owens Road.

3. **INQUIRY:** Reference sheets 095-E-508,-509,-510; Only a few items state "provide" on these sheets with several items listed having a JEA part number. What items will be furnished by JEA?
   - **RESPONSE:** JEA will provide the Cameras and wiring for the Camera's and have a specialty contractor install. All other items shall be purchased and installed by the Contractor. As for the Lighting, the Contractor responsible for all component purchases and the poles and all installation of the lighting.

4. **INQUIRY:** On the crane specifications for the project, you are calling for a top running trolley hoist with chain. Most hoist manufacturers make their chain hoists to run along the bottom of the beam, which is underhung. Most wire ropes would run on top of the bridge with a top running trolley. Where do you want the hoist to run and what type of hoist (chain/wire rope) do you want?

- **RESPONSE:** A top running single girder bridge crane with underhung wire rope hoist and trolley is the intent of the specifications. This arrangement is indicated on Contract Drawing 020-D-301 in section A and B.

5. **INQUIRY:** I am working on this material list and I have noticed a couple of missing items on the engineering drawings. There is no detail for the 24" OVERFLOW PIPE INSIDE THE TANK. Missing the supports needed as well.
   - **RESPONSE:** Section D on Dwg 010-D-303 has been revised to correctly show the 24" OF inside the tank and revised Dwg 010-D-303 is included with this Addendum. Detail 1 on Dwg 010-D-303 shows the support bracket details. Please note that there should be two pipe support brackets per Detail 1 supporting the 24" OF standpipe off of the tank wall.

6. **INQUIRY:** I am working on this material list and I have noticed a couple of missing items on the engineering drawings. There is no clear Class of Ductile Iron pipe required. JEA specs are minimums for construction. Given the diameter of the pipe it can be a big difference in cost.
   - **RESPONSE:** The minimum pressure classes for 4" - 42" ductile iron pipe per AWWA C150 and C151 will exceed the JEA specified requirement of 150 psi minimum. Below is table showing minimum pressure classes for ductile iron pipe for 4" – 42".

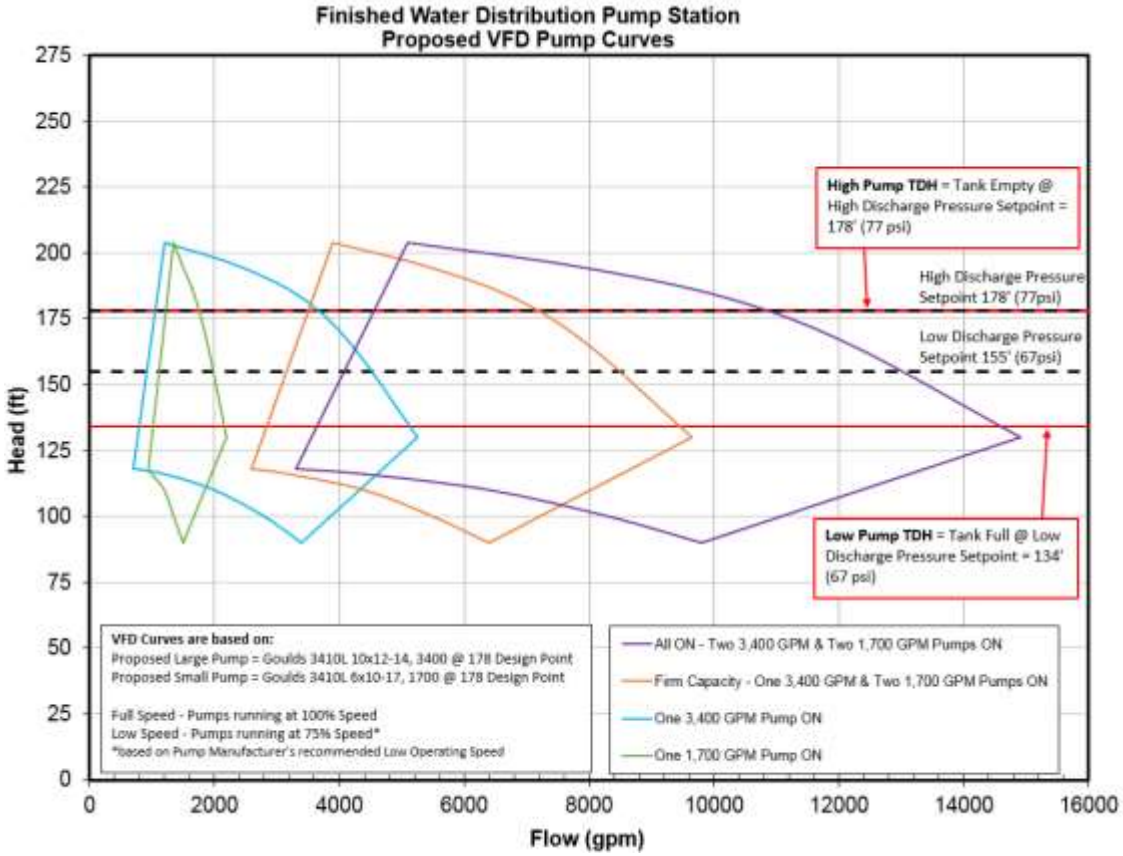
Nominal Size (in)	Minimum Pressure Class (psi)
4	350
6	350
8	350
10	350
12	350
14	250
16	250
18	250
20	250
24	200
30	150
36	150
42	150

7. **INQUIRY:** Attached is a substitution request for the Northwest Regional Water Treatment Plant. We are the manufacturers' representative for American Specialties in the state of Florida. I have included a point-by-point comparison along with specifications, warranty, and LEED information.
   - **RESPONSE:** The project substitutions are not approved by JEA. The contractor or supplier failed to identify a specific benefit to JEA for accepting the substitution.

8. **INQUIRY:** Section 44 42 56.02, Horizontal Split Case Centrifugal Pumps
   - Paragraph 2.01.A – Please confirm that the VFDs are to be provided by the pump supplier. This helps ensure compatibility between the pump motors & drives.
     - **RESPONSE:** The VFDs can be (but do not have to be) provided by the pump supplier.
   - Paragraph 2.02.A.3 – In order to comply with this requirement a split seal would need to be utilized. The seals specified in 2.02.A.7.e are not split type. Please review & confirm what is desired.
     - **RESPONSE:** DELETE Paragraph 2.02.A.3. The single type mechanical seals specified are correct.
   - Paragraph 2.04.A
     - Please confirm that the pumps & bases are to be factory prime coated by the pump manufacturer.
     - Please verify if system No 4 or system No 5 in 09 90 00 is to be used.
     - It is suggested that intermediate & finish coats be applied by the contractor in conjunction with the adjacent piping after installation.
     - **RESPONSE:** The pumps & bases are to be factory primed and finish coated per System No. 4 in Section 09 90 00.
   - Supplement
     - The Peerless pump proposed for the large high service pumps has a shutoff head of approximate 228'. Is this deviation acceptable?

- Regarding the 250hp driver for the large high service pumps, please confirm that this is a maximum value and smaller hp motors & associated VFDs can be provided if it meets the requirements of the spec as non-overloading. Smaller motors & associated VFDs would be more cost effective.
- The Peerless pump proposed for the small high service pumps has an NPSHRE of 12.5' at the rated capacity. Is this deviation acceptable? This should not be an issue with the specified 30.7' NPSHA.

➢ **RESPONSE:** The specified pump data sheets are based off a design pump from one of the JEA approved horizontal split case pump manufacturers (Goulds). An alternate JEA approved manufacturer pump selection with higher shutoff heads and/or smaller motor sizes may be acceptable provided they meet the Specifications. At a minimum, the firm capcacity of the two large and two small selected pumps at 100% speed shall be 6,800 gpm. The selected pumps should cover the anticipated full operating TDH window using VFDs without operating point gaps. The below graph shows the operating coverage of the design pumps (Goulds) as an example:



Also, the selected pumps can have different NPSHr from the specified pump data sheet provided this does not exceed the specified NPSHa

9. **INQUIRY:** Section 44 42 56.03, Vertical Turbine Pump
   - Paragraph 2.03.0B – Please confirm that 10" column is to be used and confirm the length of column to be assumed for bidding purposes.
     ➢ **RESPONSE:** The pump selection included in Section 44 42 56.03 is preliminary and for bidding purposes only. A final pump selection can not be determined until after well construction and testing is completed.
     The design flow of these pumps is 2,500 gpm. The maximum anticipated pumping flow typically determines column size. This max flow rate depends on each JEA approved vertical turbine pump manufacturer's selection and the associated initial low head system curve which will not be known until after well testing, therefore a 10" column with a setting depth of 100' should be used by all JEA approved vertical turbine pump manufacturers for bidding purposes.
   - Paragraph 2.04.A.2 – This states a spare impeller wear ring is required but 2.03.C.2 does not require impeller wear rings. Please review & clarify.
     ➢ **RESPONSE:** Impeller wear rings are not required and do not have to be provided as a spare part.
   - Paragraph 2.06.B – Please confirm that calibrated lab motors can be used for the pump factory performance testing.
     ➢ **RESPONSE:** Calibrated lab motors can be used for the pump performance testing. The actual motors to be supplied are required to be factory tested per Section 26 20 00 Paragraph 2.17. Each final pump and

motor will be field tested together per Paragraph 2.08 and any performance deficiencies determined will be corrected at the Contractors cost.

10. **INQUIRY:** Paragraph 44 44 13.01
    - Grundfos, the named manufacturer of the dosing pumps specified in this section, also builds complete dosing skids which incorporate their pumps. Is a skid system by Grundfos which meets the requirements of this section acceptable?
    - **RESPONSE:** A Grundfos skid system is not acceptable due to Grundfos is not one of the named JEA Chemical Metering System Suppliers in paragraph 2.01 B. (Carl Eric Johnson, Guardian Equipment, and Barrett Supply).

11. **INQUIRY:**See the below questions for the NWR WTP(JEA) Project No 8002265
    - The specification 13 24 19 |1.03C call for the roof panel assembly to meet the requirements of UL 580. The Florida Building Code 2014 does not explicitly require metal roof panels to be tested under the UL 580 test standard unless the project is located in a High Velocity Hurricane Zone (HVHZ). For non-HVHZ projects, the Code states in Section 1504.3.2 that:
      "Metal panel roof systems through fastened or standing seam shall be tested in accordance with UL 580 or ASTM E 1592 or TAS 125."

      Our metal roof panels have been tested to the ASTM E 1592 test standard which meets Code and which we feel provides better performance data since it tests the panel to failure and not to a set maximum pressure as the UL 580 test standard does. There are cases where a panel will meet the requirements of the UL 580 test but not work for the particular project if the site wind uplift forces exceed the forces applied in the UL 580 test.
      - **RESPONSE:**. Revise Section 13 34 19 as follows: Delete 1.03, C. Roofing system wind-uplift resistance shall be based on 1.03, D. and 1.03, E.

12. **INQUIRY:**See the below questions for the NWR WTP(JEA) Project No 8002265
    - Specification 13 34 19 - 7 / 2.02 A 2. calls for the secondary framing to be G60 galvanized. Nucor Building Systems does not use G60 because of its life span is not much better than standard red oxide. They only use G90. We highly recommend requiring G90, which has double the galvanizing and is expected to perform 50% better. G90 is available from all manufacturers. Please advise?
      - **RESPONSE:** Secondary framing shall be G90 galvanized.
    - On Drawing 040-A-301 it calls for the wall panels on the Sodium Hypochlorite Canopy to be structural standing seam metal wall. There is no standing seam panel made to go on the walls. We can either use a hidden fastener type wall panel or a standard exposed fastener type wall panel (which is what is normally used in this application) on the wall. Hidden fastener is much more expensive. Please advise which to use?
      - **RESPONSE:** Standard exposed fastener type wall panel shall be used.
    - Specification 13 34 19 - 12 / 2.03 A 1 a calls for design for bridge crane rating CMMA Class A. Is this correct for the service class? Most of the buildings require either a C or D.
      - **RESPONSE:** CMMA Class A is correct this application.
    - Drawing 001-G-107 under the Metal Building Systems section #3 calls for the manufacturer to design the anchor bolt. The metal building company will design the layout with diameter and reactions for the foundation engineer to determine embedment. The Metal building manufacturer will not design embedment.
      - **RESPONSE:** Where referenced on Dwg 001-G-107 "embedment depth" can be deleted. The min embedment depths are shown in the footing section cuts in Section B/020-S-301 and Section A/040-S-301.

13. **INQUIRY:** Can you confirm which pipelines are to receive heat tracing other than the pipe inside of the chemical handholes?
    - **RESPONSE:** The chemical piping inside the manhole shall be insulated only. Heat tracing is not required.

14. **INQUIRY:** Who is responsible for filling the 8000 gallon fuel tank? Will the tank need to be topped off after load testing?
    - **RESPONSE:** Per Section 43 40 05 paragraph 3.02 B, a functional test is required prior to startup which includes a successful leakage test with the tank full of clean fuel oil. CONTRACTOR to supply all fuel oil for testing.

15. **INQUIRY:** Who is responsible for filling the sodium hypochlorite tank?
    - **RESPONSE:** Per Section 43 40 01 paragraph 3.04 A, the CONTRACTOR is required to fill the storage tank prior to functional and performance testing and also replace chemicals used during testing and provide Owner with full tanks of chemical prior to contract closeout.

16. **INQUIRY:** Please confirm that we are to perform preloading for the ne0w tank as well as the future tank.
    - **RESPONSE:** As indicated on Dwg 005-C-202 and Section 31 21 00 Site Preloading (paragraph 1.01) preloading is required for both the new tank and the future tank areas.

17. **INQUIRY:** Do you happen to know if there are any existing water lines and power lines in the area that can be used for obtaining construction utilities?
    - **RESPONSE:** Regarding construction water see resonse to **Inquiry 21** below. Per Section 01 50 00, 3.01 A, electric power will be available at/near the project site.

18. **INQUIRY:** Sheet 17 has a note stating that JEA will furnish and install the motorized gates. Will JEA also furnish the card readers?
    - **RESPONSE:** JEA will furnish and install the Card Readers.
19. **INQUIRY:** The painting & coating requirements for the pre-stressed concrete tank in Specification 33 16 13.15, Pre-stressed Concrete Tank with Galvanized Steel Diaphragm (Paragraph 3.09) differ from the painting & coating requirements of Specification 09 90 00 – Painting & Coating. Which coating system should be used?
    - **RESPONSE:** The coating specified in Section 33 16 13.15 Paragraph 3.09 is correct. System No. 17 in Section 09 90 00 will be removed.

20. **INQUIRY:** Please provide the name and telephone number for the company currently installing the wells.
    - **RESPONSE:** Rowe Drilling Co., Blake Hare, 912-965-0351

21. **INQUIRY:** Paragraph 3.01-D on page 01 50 00-3 of the General Requirements states that "no construction water is available at site"/ Please advise the location of the nearest available water main that can be tapped to provide water. Also, please advise if construction water can be obtained from a connection to the new well No. 1 on site. This was allowed during construction of the Greenland Water Treatment Plant.
    - **RESPONSE:** There are two 4" PVC shallow rock wells onsite that are being used for work supply water during construction of the two Floridan aquifer production wells. They are located near the two production wells. These wells will remain and can be used for the water treatment plant construction water. The Contractor will need to provide all pumping equipment and appurtenances as needed. These rock wells will be abandoned once they are no longer needed.

22. **INQUIRY:** Paragraph 2.16.1 on page 79 of the solicitation states that a density test allowance will be provided on the bid form. The current bid form does not show a testing allowance. Please advise if the testing allowance will include all concrete testing, as well as density testing.
    - **RESPONSE:** The Contractor shall capture all the cost for concrete and soils testing or any other testing requirements per the contractual documents

23. **INQUIRY:** Section 01 45 16.13-1 requires a very extensive CQC plan with onsite CQC manager and full CQC staff. We have not seen this requirement on any previous JEA water projects. This seems excessive for a project of this size and will add a great deal of cost to the project. Please advise if a CQC organization will, in fact, be required on this project.
    - **RESPONSE:** The general requirements for Contractor Quality Control (CQC) in Section 01 45 16 are applicable to any construction project. For this project the specific CQC organization roles (i.e., CQC System Manager and CQC Staff) may be fulfilled by the Contractor's Project Manager or Onsite Superintendent and staff and does not require a separate organization.

24. **INQUIRY:** Paragraph 3.01B of spec section 31 21 00 states "…remove preload material ad dispose of at location determined by the Owner." Please advise the location to dispose preload.
    - **RESPONSE:** Per Section 31 21 00 paragraph 2.01 A., the intent was for the contractor to be responsible for all sourcing/removal/disposition of preload material. Revise section 31 21 00 paragraph 3.01B to read as follows (note, subparagraph 3.01 B.1. remains unchanged):
      B. After preload has been in place for at least 2 months and recorded settlements are less than 0.01 foot per week, remove preload material. Contractor shall be responsible for disposition of preload material.

25. **INQUIRY:** Paragraph 1.3.3 on page 15 of the Solicitation, requires bidders to submit (1) original, two (2) duplicates and one (1) CD of all bid documents. Appendix "B" Bid Form for this solicitation requires bidders to submit one (1) original and two (2) copies of all bid documents. Please advise which one takes precedence, Appendix B or the Solicitation.
    - **RESPONSE** Section 1.3.3. on page 15 of the Solicitation is correct .

26. **INQUIRY:** Due to the required SBE participation and the last minute nature of the bidding process, we request that that required number of copies be reduced to 1 original with the electronic copy emailed by the end of the day. This would allow us more time to evaluate the scope and pricing we are receiving in order to provide JEA with the most competitive price in lieu of closing the bid early in order to allow time to fill out all required copies and the electronic copy.
    - **RESPONSE**: The requirements shown in section 1.3.1. Submitting the Bid Form must be followed.

27. **INQUIRY:** With regards to the JSEB goal of 7%, we have solicited many JSEB subcontractors for this project and do not see how we are to meet the goal calculated for this project. The scope of work is limited to only a few divisions from which the cost would be a minimal amount towards the 7% goal. We are asking that the 7% goal be reviewed and lowered to be more obtainable and provide a list of the scopes of work that JEA had in mind for JSEB participation on this project
    - **RESPONSE:** The 7% JSEB participation goal will not be lowered. Site work is one of the primary areas in which JSEB contractors are available. However, bidders can use JSEB firms in any capacity to satisfy the JSEB participation goal.

      Bidders who do not comply with the JSEB requirement must submit documentation describing their good faith efforts. See Section 1.2.4.1 of the Solicitation for the detailed information required for good faith efforts.

28. **INQUIRY:** We need to know how much to include in our bid for the JEA building permit.
    - **RESPONSE:** All Bidding Contractors shall omit the cost of the COJ Building Permit. JEA will issue a separate payment to the COJ for the Building Permit cost after the winning bidder is officially identified.

SPECIFICATIONS REVISIONS

29. REPLACE Section 01 78 23 Operation and Maintenance Data with attached new Section 01 78 23 Operation and Maintenance Data

CONSTRUCTION DRAWINGS REVISIONS

30. **REPLACE the following drawings with the attached drawings:**
    - **005-TR-201**
    - **005-TR-202**
    - **005-TR-203**
    - **005-LS-201**
    - **005-LS-204**
    - **005-IR-201**
    - **005-IR-202**
    - **005-IR-203**
    - **005-IR-204**
    - **005-IR-205**
    - **005-IR-206**
    - **010-D-303**

31. **ADDITIONAL DOCUMENTS:**
    - Equipment Attribute Worksheets Northwest WTP
    - JEA NW WTP- RAM set
    - 010-D-3003_657730
    - 01_78_23B_Operation_and_Maintenance_Data (002)

Acknowledge receipt of this addendum on the Bid Form