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

June 4, 2019

ADDENDUM NUMBER: Two (2)

TITLE: Buckman – 5301 Buffalo Ave – Class IV Pump Station Rehabilitation

JEA IFB NUMBER: 088-19

PROPOSAL DUE DATE: ~~June 11, 2019~~ June 18, 2019

TIME OF RECEIPT: 12:00 PM

TIME OF OPENING: 02:00 PM

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

1. JEA is issuing the following Changes to the Solicitation:

   a. The Proposal Due Date is hereby extended to **June 18, 2019**.

   b. The revised deadline for questions submitting written questions to JEA is June 13, 2019, after which time further questions will not be answered.

2. JEA is providing the additional and updated documents listed below:
   - 088-19 Addendum 2 - Appendix C Schedule of Values
   - 088-19 Addendum 2 - Appendix C Equipment Attribute Worksheet
   - 088-19 Addendum 2 - Appendix B – Workbook
   - 088-19 Addendum 2 - Appendix C Wigmore St FM As-Builts_2009
   - 088-19 Addendum 2 - Appendix C S-13.0_Rev
   - 088-19 Addendum 2 - Appendix C M-7.0_Rev
   - 088-19 Addendum 2 - Appendix C M-8.0_Rev
   - 088-19 Addendum 2 - Appendix C M-11.0_Rev
   - 088-19 Addendum 2 - Appendix C M-12.0_Rev
   - 088-19 Addendum 2 - Appendix C M-13.0_Rev
   - 088-19 Addendum 2 - Appendix C E-2.2_Rev

3. JEA is issuing the following Changes to the Drawings provided in 088-19 Appendix A – Drawings:

   a. Sheet C-4.0, Detail 1:

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1. Change specification reference in Note 6 from “02650” to “02065”.

2. Add the following to the Notes: “7. Contractor may remove the frame and brick adjustment rings of the junction manhole if more space is needed for the temporary bypass suction piping. Contractor shall restore the manhole frame and rings once bypass operations are complete, at no additional cost to JEA. Restoration shall include repair of the manhole lining system in accordance with the system manufacturer’s recommended repair approach. If required, CONTRACTOR shall provide a liner repair submittal for approval prior to liner repair activities, and CONTRACTOR shall submit a liner repair inspection report with certification of proper installation from the liner manufacturer. Bypass pumping shall be the sole responsibility of the CONTRACTOR, the drawings only provide a suggested method verifies the feasibility.”

b. Sheets S-13.0 (Detail E), M-7.0, M-12.0 (Section E): Provide manufacturer’s standard base elbows (rather than floor-mounted bases) with 316 SST guide rails, lifting chains, mounting hardware and structural support angle for the proposed Drywell Sump Pumps. See attached revised drawings.

c. Sheet S-1.0: Add to the end of Keynote 1 the following: “All surfaces to receive the lining system shall be hydroblasted at 40,000 psi. Coordinate with specification and lining system manufacturer for additional surface preparation requirements and meet the requirements set by the liner system manufacturer.”

d. Sheet S-4.0: Add to the end of Keynote 2 the following: “All surfaces to receive the lining system shall be hydroblasted at 40,000 psi. Coordinate with specification and lining system manufacturer for additional surface preparation requirements and meet the requirements set by the liner system manufacturer.”

e. Sheet S-5.0: Add to the end of Keynote 2 the following: “All surfaces to receive lining system shall be hydroblasted at 40,000 psi. Coordinate with specification and lining system manufacturer for additional surface preparation requirements and meet the requirements set by the liner system manufacturer.”

f. Sheet S-9.0, Room Finish Schedule: For Room 102, delete the painting reference (letter “P”) for all columns. Also for Room 102, change the note reference from “1” to “3” and add to the Room Finish Schedule notes the following: “3. See JEA Standard Specification Section 446 for lining system at wetwell.”

g. Sheets M-7.0, M-8.0, M-12.0 (Section E): Revise installation and mounting details for the submersible mixer mast with upper and lower pivot brackets. Add Notes 1 and 2 for the mixer manufacturer to provide 316 SST upper and lower mounting brackets and installation per manufacturer’s directions. See attached revised drawings.

h. Sheets M-8.0, M-11.0 (Section A), M-13.0 (Pipe Schedule and Fitting Schedule): Provide 24”x16” DIP reducers, with about 20’ of welded-flange 316 SST pipe (Schedule 40) for the ultrasonic flowmeter. See attached revised drawings. All welding shall be by AWS certified welders. Each flanged connection between stainless steel and ductile iron piping shall include a Type E “full face” insulation gasket with one-piece, bolt-isolating sleeve and washer kit. Stainless to stainless flanges shall require EPDM gaskets. No butt welded stainless joints shall be allowed.

i. Sheet M-13.0 (Pipe Schedule and Fitting Schedule):

1. Valve Schedule: For the description of valves CV-001, CV-002 and CV-003, delete the word “20-inch” and replace with the word “12-inch”. See revised drawing.

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2. Valve Schedule: Add the following to the bottom of the schedule: "Note: Swing check valves 3" and larger shall be Crispin "SWL" series." See revised drawing.

3. Fitting Schedule: For the description of fittings F-010, F-011 and F-012, delete the word "20-inch" and replace with the word "12-inch". See revised drawing.

j. Sheet E-0.5: Delete Key Note D and add the following Key Note D: "Drywell sump pump control panel shall be NEMA 4X SST, UL 508A listed, contain main circuit breaker, starters, and controls to operate the sump pumps automatically and manually. Control panel shall be in accordance with applicable JEA water and wastewater section 433.IV requirements. Sump pumps shall be automatically controlled by the liquid level in the sump. A diaphragm switch shall be provided to automatically start/stop the pump".

k. Sheet E-1.0: Revise Note 4 as follows: Delete the words "Row 19.a." and replace with the words "Row 16.a.".

l. Sheet E-2.0: Revise Note 4 as follows: Delete the words "Row 19.a." and replace with the words "Row 16.a.".

m. Sheet E-3.0: Revise Note 4 as follows: Replace the words "Row 19.a." with the words "Row 16.a.".

n. Sheet E-2.2: Revise the wetwell area stairwell fixture callout to be Type "D" rather than Type "C". See attached revised drawing.

4. JEA is issuing the following Changes to the Specifications provided in 088-19 Appendix A – Technical Specifications:

a. Section 01100 SUMMARY OF WORK:

1. Add the following to Paragraph 1.02.D.1: "n. Update and complete the Enterprise Asset Management (EAM) table drafted for this project."

2. Add the following to Paragraph 1.03: "F: CONTRACTOR shall provide bypass pumping from December 2, 2019 through June 1, 2020 in its bid. Note that the work related to installing the bypass pumping connections must be completed on or before December 2, 2019. Between December 2, 2019 and December 31, 2019, CONTRACTOR shall initiate the bypass pumping and completely remove the debris from the influent channels, wetwell, etc. dispose the debris and wash down (hose down) to allow JEA to begin the lead and asbestos abatement related work by January 2, 2020. The bypass pumping period between January 2, 2020 and January 23, 2020 shall be reserved for lead and asbestos abatement related work that will be performed by JEA with other forces. Construction of the channels, wetwell, pumps, and piping shall be completed be between January 23, 2020 and June 1, 2020 to allow the pump station to be functional after June 1, 2020. CONTRACTOR shall include the costs for all bypass pumping from December 2, 2019 through June 1, 2020 in CONTRACTOR's bid."

3. Add the following to Paragraph 1.03: "G: CONTRACTOR shall provide all tankage and pumping equipment for hydroblasting activities related to the wetwell and influent channels. JEA will provide potable water for hydroblasting activities at no cost to CONTRACTOR."

4. Add the following to Paragraph 1.03: "H: CONTRACTOR shall perform all work during daylight hours and JEA work-days. Bypass connections and other emergency activities will be approved on a case-by-case basis for work during non-approved hours."

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5. Add the following to Paragraph 1.03: “I: “JEA will pump down the wetwell as far as possible (to a depth of about 4.5 feet). All contents of the wetwell and channel must than be removed and disposed of by the CONTRACTOR in a manner approved by JEA. CONTRACTOR shall provide a submittal on the debris removal and proper disposal including use of subcontractors for this activity.”

6. Add the following to Paragraph 1.06.A: “3. CONTRACTOR staging area: The area North of the pump station and up to the street may be used for staging. CONTRACTOR shall protect the drainage and trees, provide a silt fence around the staging area, and restore the staging area to pre-existing conditions as evidenced by photographs/videos. Additional storage for equipment can be provided at the Buckman WWTP. Construction by JEA’s own forces in the staging area shall be accommodated by the CONTRACTOR. Site safety and protection shall be the responsibility of the CONTRACTOR.”

b. Section 01370 SCHEDULE OF VALUES: Replace the itemized table at the end of the section with the attached 088-19 Addendum 2 - Appendix C Schedule of Values.

c. Section 02065 TEMPORARY BYPASS PUMPING SYSTEM:

1. Add the following Paragraph 1.01: “E. CONTRACTOR shall be capable of having maintenance personnel onsite within 30 minutes of receiving notice (or overflow alarms) that there are problems associated with the bypass pumping system.”

2. Add the following Paragraph 1.01: “F. The requirements in Specification Section 01100 for scheduling the bypass pumping and related work including work to be performed by JEA with other forces shall be met.”

3. Add the following Paragraph 1.01: “G. The bypass pumping system provided in the contract documents are for illustrating the feasibility of the concept only. The bypass pumping system design and operation shall be the sole responsibility of the CONTRACTOR and shall be submitted to JEA for approval as part of the submittal process.”

4. Add the following to Paragraph 2.01.A: “1. All pumps and drives shall be rated for continuous duty and shall be capable of pumping the specified flow range without surging, cavitation, or vibration. The pumps shall not overload the drivers at any point on the pump operating curves. Rotative components shall be statically and dynamically balanced. The pumps shall be suitable for use with raw, unscreened sewage and trash. The pumps shall be self-contained units with critical-silence enclosures, designed for this application.”

5. Add the following to Paragraph 2.01.A: “2. All pumps shall have a ductile iron casing, suction cover, separation tank, and non-return valve, a high nickel steel open impeller, front and rear wear plate, shaft sleeve and shaft.”

6. Add the following to Paragraph 2.01.A: “3. Pump seals shall be constructed of silicon carbide, of the mechanical type, and shall be located in an oil bath. This will allow lubrication by the oil, not by the wastewater, and will allow pump operation at periods of low flow.”

7. Add the following to Paragraph 2.01.B: “1. The bypass pumps shall have manual start/stop. The lead pump shall be active in Automatic mode at all times during bypass operations. A High Water Level alarm signal (light) for the junction manhole will indicate pump operational problems and activate the backup pump(s).”

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8. Add the following to Paragraph 2.01: “J. CONTRACTOR shall provide manpower to continuously monitor the pumping equipment on a 24-hour basis while in operation and activate standby equipment.”

9. Delete paragraph 3.04 PAYMENT in its entirety and replace with the following: “A. Payments for the temporary bypass pumping system shall be in accordance with the bid tab for the project.”

10. Add the following:

    “3.05 BYPASS PUMP TEST

    A. A functional/operational test of the bypass pump system must be successfully run for 24 hours before taking the existing pump station offline.

    B. Provide a designated employee(s) whose only role in the construction effort is to be responsible for continuously (24 hours per day) monitoring the bypassing operation and all related equipment. The designated employee(s) will not be allowed to participate in any other unrelated undertaking while monitoring the bypassing operation.

    C. Complete a bypassing checklist and sign prior to beginning station bypassing operations. The checklist shall demonstrate the step-by-step inspection of the pumps, pipes, hold-down cables, plugs, and other equipment or appurtenances that will be used in the operation.”

11. Add the following:

    “3.06 DAMAGES

    Without cost to JEA, repair any damage that may result from temporary demobilization from the Work area, and installation, operation, maintenance, and removal of the station bypass pumping system. This includes, but is not limited to, damages resulting from inadequate demobilization, or improper installation, operation and maintenance of the bypass system, mechanical failures, and electrical failures.”

d. Section 03600 GROUT: Revise the section number in the footer from “03350” to “03600” for all pages”.

e. Section 09900 PAINTING AND COATING: Paragraph 2.02.B.3 by delete the words “acrylic latex” replace with “polyamide epoxy”.

f. Section 11400 VERTICAL DRY PIT SOLIDS-HANDLING PUMPS:

1. Revise Paragraph 2.01.A.2 as follows: Replace the words “Grundfos/Chicago (a.k.a.,Yeomans) Model 2111” with the words “Grundfos (a.k.a., Chicago/Yeomans) Model YP 12515-4A”.

2. Revise Paragraph 2.01.A.3 as follows: Replace the words “Pentair (a.k.a., Fairbanks-Morse)” with the words “Fairbanks-Morse (a.k.a., Pentair)”.

3. Replace the table in Paragraph 2.02.A with the following:

PRIMARY CONDITION

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Design Capacity	3,125	gpm
Design Head	40	ft
Minimum NPSH Available	26.6	ft
SECONDARY CONDITION		
Design Capacity	3775	gpm
Design Head	37	ft
Minimum NPSH Available	26.4	ft
Minimum Shutoff Head	54	ft
Maximum Shutoff Head	58	ft
Minimum Available Submergence (to Pump Centerline)	1.68	ft
Maximum Motor Speed	1200	rpm
Minimum Motor Speed	660	rpm
Minimum Efficiency (at Primary Design Capacity)	68	percent
Maximum Motor Size	50	hp
Suction Connection	12	inch
Discharge Connection	12	inch

4. Delete Paragraph 2.02.B in its entirety.

g. Section 15815 METAL DUCTS: Delete Paragraph 2.2.B and replace with the following: "Stainless-Steel Sheets: Comply with ASTM A480/A480M, Type 316; cold rolled, annealed, sheet. Exposed surface finish shall be No. 2B, No. 2D, No. 3, or No. 4 as indicated in 'Duct Schedule' Article".

h. Section 16410, ENCLOSED SWITCHES AND CIRCUIT BREAKERS, Paragraph 2.06 MOLDED-CASE CIRCUIT BREAKERS: Add to Paragraph 2.06.A the following: "2. Siemens".

i. Section 16441 DISCONNECT SWITCHES: Add to Paragraph 2.01 the following: "E. Siemens".

j. Section 16495 VARIABLE FREQUENCY DRIVES:

1. Revise the section number in the footer from "16461" to "16495" for all pages.

2. Add the following to the end of Paragraph 1.06.B before the period: "provide a PROFIBUS Certificate of Compliance and a ProfiDRIVE Certificate of Compliance for each VFD."

3. Add the following Paragraph 2.01.B: "Each VFD shall have flying restart and kinetic buffering capabilities in accordance with JEA requirements."

k. Section 16900 INSTRUMENTATION AND CONTROL:

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1. Add to Paragraph 2.02.A, after the words “General Electric,” add the following: “Siemens”.

2. Add to Paragraph 2.02.B, after the words “standardized equipment,” add the following: “or Siemens,”.

l. Section 16930 PROCESS LOOP DESCRIPTIONS:

1. Replace the table in Paragraph 2.04.F.8 with the following:

Pump Span Settings Summary (Operator variable fields on HMI)			
Level	-12.75	Max Speed	100%
Level	-17.75	Min Speed	75%

2. Replace the table in Paragraph 2.04.F.10 with the following:

	Wetwell Water Surface Elevation (ft)	Wetwell Level Depth (ft)	Pump Speed (%)
High High Level Alarm	-10.75	10.85	
High Level Alarm	-11.25	10.35	
2nd Lag Pump ON	-11.75	9.85	100
1st Lag Pump ON	-12.25	9.35	100
Lead Pump ON	-12.75	8.85	100
2nd Lag Pump OFF	-16.75	4.85	75
1st Lag Pump OFF	-17.25	4.35	75
Lead Pump OFF	-17.75	3.85	75
Low Level Alarm	-18.25	3.35	

5. JEA is issuing the following Changes to the Bid Workbook provided in 088-19 Appendix B – Bid Workbook with the attached revised Bid Workbook.

6. JEA is responding to the following questions:

1. Question:
For the Unit Price Bid Items No. 28 (A-3 Sand) and No. 29 (57 Stone), please provide information on what makes up these items as far as measurement and payment. Also, please provide what situations these bid items would be used for.

Answer:
A-3 sand is specified as suitable material for backfilling piping trenches and sub-base material for paved areas. No. 57 stone is specified as suitable bedding material for the buried pipes, valves, backflow preventor, structures, and beneath new concrete sidewalks. All relevant details with excavation and backfill shown in Drawings C-6.0 through C-8.0 require A-3 sand for backfilling where suitable material is not available and #57 stone for bedding.

2. Question:

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REF: Specification Table of Contents, Page 3 – Please clarify the Contractor's responsibility in regards to Asbestos and Lead. Is it included in Contractor's scope to remediate, or will JEA handle outside of Contractor's scope.

Answer:
See revisions to Section 01100 above.

3. **Question:**
Looking over the plans for the bypass it calls for 2 – 12" and 1 – 8" pump. What are the plans with the existing manhole to allow for each pump to have their own designated suction hose during the bypass.

Answer:
Refer to the revisions to Drawing Sheet C-4.0 above and revisions to the specification Section 02065.

4. **Question:**
REF: 01100.1.02.D.g – Please direct us to a specific scope of work describing the rehabilitation of the existing monorail lift system.

Answer:
Drawing S-5.0, Keynote 5, indicates the monorail system rehabilitation.

5. **Question:**
The payment section (3.04) of the Temporary Bypass Pumping System Specification states that "payments for the temporary bypass pumping system shall be in accordance with the Bid Tab for the project, including the unit pricing shown for bypass requirements beyond the anticipated period included in the Bid Tab." There does not appear to be a specific unit price line item related to the bypass pumping system in the bid form. Please add the unit price line item for the bypass pumping system or advise where the bypass pumping system cost should be accounted for.

Answer:
See revised bid worksheet included in this Addendum.

6. **Question:**
REF: 08331.2.05 – Section specifies manual operation of the overhead doors.

Answer:
The overhead coiling doors will be provided with manual chain hoist operators, as specified.

7. **Question:**
REF: 09900.2.02.B.3 – It list Tenemec Series 66 as an Acrylic Latex which is not correct as it is a polyamide Epoxy. We typically use Series 114, which is a waterborne Acrylic Epoxy. Is this acceptable? By using these materials, we will only have one (1) supplier.

Answer:
Use Tnemec Series 66 Polyamide Epoxy for the specified applications. Refer to the revisions to Specification Section 09900 above.

8. **Question:**
REF: 09900.2.02.D.2&3 – It specifies Crotch, is Tnemec Series N140-1211 Pota-Pox Plus as a Primer, Series 66 Epoxoline intermediate coat and Series 1074 Endura-Shield II as Finish coat acceptable? By using these materials, we will only have one (1) supplier.

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Answer:
The Tnemec products listed in this question are acceptable for use in the specified applications

9. **Question:**
REF: 09900.2.02.E.2&3 – Instead of Carboguard 60 Polyamide use Tnemec Series 66 Polyamide Epoxy? By using these materials, we will only have one (1) supplier.

Answer:
The Tnemec Series 66 Polyamide Epoxy is acceptable for use in the specified applications.

10. **Question:**
Please confirm the primary design capacity is at reduced speed. Please confirm the secondary design rated head is 34' with a single pump or parallel operation. Design at 4200gpm @ 34' will exceed 50HP maximum motor size limitation for our offering.

Answer:
The design conditions for the service pumps and the approved pump models have been clarified in the revisions to Specification Section 11400 above.

11. **Question:**
There appears to be no specification section for the new fuel system and tank. Please provide.

Answer:
The fuel system and tank specifications are in the JEA Facilities Standards Manual, Division 26.

12. **Question:**
Can you consider adding Siemens to the list of approved molded case circuit breaker, section 16410 part 2.06 Molded-Case Circuit Breaker?

Answer:
Yes. See revision to Specification Section 16410 above.

13. **Question:**
Can you consider adding Siemens to the list of approved disconnect switches, section 16441 part 2.01?

Answer:
Yes. See revision to Specification Section 16441 above.

14. **Question:**
Can you consider adding Siemens to the list of approved control devices, section 16900 part 2.02 a,b,c and d?

Answer:
Siemens has been added as an approved manufacturer for control stations and float switches, but not for limit switches. There is no Paragraph 2.02.d in the referenced section. See revisions to Specification Section 16900 above.

15. **Question:**
Question on the PICS/Integration requirements on this project. Section 16930 states JEA will serve as the Control System Integrator. Section 16900 references repeatedly to use a system supplier/sub for the

project. Which is correct? Are we just supplying the panels and JEA covers integration or is a PICS sub handling it? Please clarify.

Answer:
Yes, JEA will be the Control System Programmer for this project. The Contractor shall provide the Control Panels. All instrument signals and other signals to the PLC shall be completed by the Contractor and the communications to and from the PLC shall be verified by the Contractor.

16. **Question:**
Specification Section 16930 specifically states that "JEA will serve as the Control System Integrator". Please confirm whether JEA will in fact be the Control System Integrator for this project. If not, please provide a list of JEA preferred or approved Control System Integrators.

Answer:
Yes, JEA will be the Control System Programmer for this project. The Contractor shall provide the Control Panels. All instrument signals and other signals to the PLC shall be completed by the Contractor and the communications to and from the PLC shall be verified by the Contractor.

17. **Question:**
Can you consider added similar verbiage for in the VFD section 16495 “Each VFD manufacturer shall provide a Profibus Certificate of Compliance and a Profidrive Certificate of Compliance for each VFD?

Answer:
See revisions to Specification Section 16495 above.

18. **Question:**
Do you want the VFD’s the option of kinetic buffering and flying restart?

Answer:
See revisions to Specification Section 16495 above.

19. **Question:**
REF: C-3.0, Note 2 – Please clarify what equipment or materials will be salvaged and/or reused. Will Contractor be required to haul/deliver any equipment/materials to another JEA designated location.

Answer:
Contractor shall provide a credit (see Bid Tab Worksheet attached) for the existing generator and fuel tank. Said Bid item credit for the generator and fuel tank may or may not be accepted by JEA. The three (3) service pumps, shafts, and motors are to be salvaged and delivered to JEA’s District II wastewater treatment facility. All other items are required to be disposed by the Contractor.

20. **Question:**
REF: S-1.0 – Because of the difficulty in accurately estimating the quantity of concrete that receives a new liner, please consider providing a bid quantity.

Answer:
Dimensioned as-built drawings are available to the CONTRACTOR to estimate the concrete surfaces that receive a new liner.

21. **Question:**
REF: S-4.0, Keynote 7 – Please provide a manufacture for the non-penetrating guardrail system.

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Answer:
Acceptable manufacturer is KeeGuard safety railing, by Kee Safety, Inc. of Buffalo, NY.

22. **Question:**
REF: S-7.0, Detail E – Please indicate where in the drawings that this detail applies.

Answer:
The detail in question is not applicable to this project and is to be disregarded.

23. **Question:**
REF: S-9.0, Room Finish Schedule – Room 102 (Wet Well) has a liner on the walls and ceiling. Please confirm that this room is also to be painted as shown on this schedule.

Answer:
Yes, see revision to Sheet S-9.0 above.

24. **Question:**
Can you please provide a panel layout and wiring diagram or additional information on the requirements for the Drywell Sump Pump panel? This information is needed to accurately price the panel.

Answer:
Refer to the revision of Sheet E-0.5 above.

25. **Question:**
The As-Built Drawings show 24" DIP leaving the Pump Station. The current Drawing C-4.0 shows 24" PVC and in a different routing than the As-Built Drawings. Please confirm what the current piping configuration and material is.

Answer:
Drawing C-3.0 shows the forcemain exiting the Pump Station building as 24” DIP, but it is unknown where the transition to 24” PVC occurs. The routing of the 24” forcemain was based on JEA’s as-built drawings for the Wigmore Street Forcemain Replacement (2009), attached hereto. The Contractor shall field-verify all existing buried utilities per Drawing C-4, Utility Note A.

26. **Question:**
There does not appear to be a Specification Section related to the new 400 kW Generator. Please provide.

Answer:
The generator specifications are in the JEA Facilities Standards Manual, Division 26.

27. **Question:**
How long can the Pump Station be shut down and when in order to perform the by-pass pumping tie-in?

Answer:
The pump station may be shut down for a period of 3 to 4 hours during nighttime hours, following JEA approval of a written shutdown plan that shall be submitted by the Contractor to JEA for approval.

28. **Question:**

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Check on to see if this bypass calls for critical silence pumps. I'm not seeing it in the specs unless I've completely over looked it. Can you please advise.

Answer:
Yes, see revisions to Section 02065 above.

29. **Question:**
There are roof curb details for installing new fans and Gravity intakes. Do the fans receive a new curb?

Answer:
All replacement roof-mounted equipment shall receive new roof curbing per Drawing H-6.1 Detail 2.

30. **Question:**
If the fans are to receive new roof curbs what are the recommended patch details on the roof? What is the roof composition? We recommend an allowance for roof repairs in the areas disturbed by new HVAC installation.

Answer:
The contractor shall provide roof repairs wherever roof is disturbed for construction, assuming the roof is a built-up system placed over rigid insulation board. Repairs shall be of materials and standard of care that is appropriate for this application.

31. **Question:**
The thimble in the wall of the influent channels is likely much larger than the proposed gate to be installed in same area. We recommend an oversized gate so that it *potentially* can be installed outside the limits of the existing thimble. Since this could not be investigated, we recommend any changes associated with installing these new gates be handled by SWA.

Answer:
The gates will be provided as specified. The condition of the existing wall and gate thimbles will be assessed during construction. All changes as outlined in the plans and specifications (and addenda) will be included in the Contractor's bid and not in the SWA. CONTRACTOR shall provide dimensioned installation drawings (including liner disturbance and repair during installation) for JEA approval.

32. **Question:**
On P-1.1 it appears that plumbing line would be below the slab. Is the intent to cut the floor of generator and screen room to demolish this line? What is depth below the floor?

Answer:
The strainer for the existing generator room floor drain will be replaced, but the floor drain itself and drain piping beneath the slab will not be replaced. Contractor shall clean the drain piping prior to installation of the new strainer and floor drain. Generator room floor slab is not required to be cut.

33. **Question:**
What is the flow isolation method to enable the tie-in of the 24in Tee as shown on C-4.0 and C-8.0? How much pipe will need to be emptied downstream? Do you have an as-built of this forcemain? We recommend a hot tap to minimize downtime of the pump station.

Answer:

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JEA's as-built drawings for the Wigmore Street Forcemain Replacement (2009), attached hereto. The pipe can be emptied into the wetwell for later disposal by the CONTRACTOR. Wet taps shall not be allowed.

34. **Question:**
What would be a discharge point for the draining of the FM for the tie-in?

Answer:
An existing 6" drain pipe and valve is available within the pump room to drain the discharge forcemain into the station wetwell. Alternatively, JEA operations staff will open the check valves to allow the piping to drain back into the wetwell.

35. **Question:**
It appears per NFPA 820 the drywell is a Classified space. This would require ventilation (> 6 Air changes per hour) to declassify. Current drawings show it as unclassified. Please confirm current designation is correct.

Answer:
The drywell area is physically separated from the wetwell and is designated as an unclassified space.

36. **Question:**
If ventilation is being used to declassify a space, please confirm we are not installing the Ventilation Monitoring (i.e. flow switches) and Alarm Signaling Systems as required by NFPA 820. None are shown on Mechanicals or electrical drawings. If they are desired, please show all electrical, instrumentation, and mechanical devices and provisions.

Answer:
Ventilation is not being used to declassify a space, and no additional monitoring or alarm systems are required.

37. **Question:**
Should exit fixture on E-2.2 located on the wetwell stairwell be designated "D" in lieu of "C" as currently marked?

Answer:
Yes, the callout for this fixture should be "D" instead of "C". See revision to Drawing E-2.2 above.

38. **Question:**
There was a reference made to bypass pumping being a separate bid item. Current bid form does not include bypass pumping. Please provide 4 items: setup and duration-based bypass with an item for day, week and month. Please understand rental is done by day, week, and month and that the daily rate is not prorated from the monthly rate.

Answer:
Refer to the revisions to Section 02065 above and revised Bid Tab Worksheet attached.

39. **Question:**
Is the Contractor to supply and install cover plates at the existing openings in the screen room where the mechanical screens are to be demolished? None are shown.

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Answer:
Provide tread plate as shown on Detail D/S-8.0, similar to that being provided at the locations indicated on sheet S-3.0. Bearing angles as shown on the detail are not necessary at this application, but the existing concrete shall be chipped and grinded down to provide a smooth surface level with the surrounding concrete.

40. **Question:**
Does the wetwell, pump system and pump installation meet all Hydraulic Institute Standards that are applicable?

Answer:
The replacement equipment and piping have been designed in accordance with applicable HI standards.

41. **Question:**
There appears to be no backup pumps for wet weather events (i.e. no redundancy). This does not allow for mechanical failures and as such, by design, could result in a spill in the event of a mechanical failure during an event. Please confirm this is JEA's intention.

Answer:
System resilience for service pumps will be provided by the standby generator system (part of the Contractor's scope) as well as redundant site power feed. If this question is referencing bypass pumping, this task shall be CONTRACTOR's sole responsibility.

42. **Question:**
Page 5 of Technical Memo regarding bypass pumping makes mention of "adding pumps as directed by JEA". Note that this is not possible due to room in the manhole for suction piping and no discharge connection point. Any additional pumps would have to be planned for ahead of time with connections made, etc. so as not to cause a shutdown of the currently installed units. If JEA desires to have the ability to add pumps (i.e. for a pending storm), we recommend additional discharge connections be made to the discharge header with valves and additional measures to increase suction capacity be made.

Answer:
The station bypass system shall be the CONTRACTOR's sole responsibility. The layout shown on Drawing C-4.0 and the requirements of Specification Section 02065 are provided to illustrate the feasibility of the concepts to the CONTRACTOR. See specification section 02065 and revisions provided herein.

43. **Question:**
Reference Article 2.6.1. The Contractor cannot warrant "fitness for purpose" or "merchantability" as we did not design the project. Following construction, we can only warrant that the project was constructed per the plans and specifications and that it is free from defects.

Answer:
In Article 2.6.1, delete the terms "fitness for purpose" and "merchantability".

44. **Question:**
Reference Article 2.6.1. Please confirm the plans and specifications have been prepared in such a manner that the Work will conform to all "applicable standards and regulation promulgated by federal, state, local laws and regulations". Furthermore, please confirm that if the Work was not designed so that it will

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conform to such laws, that JEA will have their Engineer prepare new plans and specifications for the Contractor to use.

Answer:
The plans were created by a registered professional engineer in the state of Florida. If there is an issue with the plans and specifications, JEA will address as needed.

45. **Question:**
Reference Article 2.13.37 Law Enforcement. It would be atypical to provide full time law enforcement on a facilities project such as this that is confined to a single, fenced site. How much law enforcement should we include in our bid. If any, please make a unit price bid item for this.

Answer:
CONTRACTOR is responsible for securing the site for the duration of this project. Any security related requirements (including law enforcement and/or temporary fencing) are to be provided by the CONTRACTOR.

46. **Question:**
Reference Article 2.10.3. This does not appear to be the project location.

Answer:
The project site address is 5301 Evergreen Avenue, Jacksonville, FL 32206. However, JEA recorded this facility as 5301 Buffalo Avenue, Jacksonville, FL 32206.

47. **Question:**
Reference Article 2.13.11. We need to know which items this Article will apply to well prior to the bid due date to accurately price the project. Please at a minimum advise if any pumps, fans, generators, piping, electrical gear and materials are to be salvaged and which Service Center they will be sent to. Alternately, we can make all equipment available to JEA at jobsite location and JEA can be fully responsible for salvage/disposal.

Answer:
See response to item 15 above.

48. **Question:**
Reference Article 2.14.11. We can only be held responsible for the installation of the bypass system. Since JEA, presumably through its Engineer, designed and dictated the bypass system to be installed, we cannot be held responsible for its adequacy.

Answer:
Refer to the revisions to Section 02065 above – CONTRACTOR is solely responsible for the bypass pumping system.

49. **Question:**
Reference Article 2.14.14. We believe we can park in the immediate vicinity of the project site with minimal restoration and impact to traffic. Please advise if this is unacceptable.

Answer:
Refer to item 3.a above

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50. Question:
Reference Article 2.16.1. The current bid form does not comply.

Answer:
JEA will pay for the first test as stated in the specifications. Additional tests shall be at the CONTRACTOR's expense.

51. Question:
Please provide an objective definition for "first-class quality" as used in Article 2.6.1.

Answer:
In Article 2.6.1, delete the term "first-class quality".

52. Question:
What material is required for the HVAC Duct system? No reference to ductwork in JEA Facility Standards or Wastewater standards. Only callout on drawings is the note on H-3.0 that calls for SS Sheet Metal Duct going to EF-5.

Answer:
See revision to Specification Section 15815 above.

53. Question:
I cannot locate the process valve specs.

Answer:
These valves are specified in the JEA Water and Wastewater Standards Manual, Section 430.

54. Question:
The specifications don't reference the plugs or check valves.

Answer:
These valves are specified in the JEA Water and Wastewater Standards Manual, Section 430. See revision to Drawing Sheet M-13.0 above regarding Crispin "SWL" series swing check valves.

55. Question:
The valve schedule is calling for 20" check valves, but the plans show a reducer prior to the check and exp joint that connect to the three pumps. I took them off as 12" per the plans.

Answer:
See revision to Drawing M-13.0 above.

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