

September 30, 2015
BOARD OF COUNTY COMMISSIONERS
ORANGE COUNTY, FLORIDA

ADDENDUM NO. 1
IFB NO. Y15-771 PH
ORANGE COUNTY SOUTH WATER RECLAMATION FACILITY
PHASE V IMPROVEMENTS

BID OPENING: October 20, 2015 at 2:00 PM

This addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~strikethrough~~.

The bid opening date remains October 20, 2015 at 2:00 PM.

A. FRONT END DOCUMENT CHANGES

1.0 Part B Notice

A second SWRF site visit for potential bidders will be held on Friday, October 9, 2015 at 10:00 a.m. to noon local time. This will be followed by a site visit the Eastern Water Reclamation Facility (EWRF) at 1:00 p.m. The address of EWRF is 1621 South Alafaya Trail, Orlando, FL, 32828.

2. Part C, Paragraph 3.e., page C-5 is changed as follows:

Paragraph e., revise to read

e. Good Faith Effort Documentation Requirements -

If the established goals (reference paragraph 3.a above) are not achieved, to maximize consideration for MWBE participation, **Bidders should provide with the bid sufficient documentation to substantiate that ALL FIVE of the mandatory efforts listed below were undertaken.** Bidders meeting or exceeding the goals need not provide good faith effort documentation. Refer to paragraph f for the sliding scale for enforcement of the good faith effort document. ~~(ALL GOOD FAITH EFFORT DOCUMENTATION MUST BE SUBMITTED WITH THE BID.)~~

B. SPECIFICATIONS

1. Specification Section 11613, Paragraph 2-3, delete "Howden" and replace with "Howden Process Compressors (as distributed by Lone Star Blower)".
2. Section 03300, Paragraph 3.07.E.1, delete "Concrete quality testing will be performed on the concrete by independent testing agency retained by the Contractor" and replace with "Concrete quality testing will be performed on the concrete by independent testing agency retained by the Owner."
3. Section 09970, Paragraph 3.06.B, in the Surface designation for Type A coating at the Preliminary treatment Facility, delete "Floors, walls" and replace with "Floors, walls, underside of top slab"

4. Section 09940, Paragraph 3-10, insert the following:

Interior walls and mat foundations of new pump stations (North Plant Transfer PS, Equalization PS, North 1 Internal Recycle PS) C4

Interior walls of new and modified process basins (North Clarifier No. 3, North 2 BNR) C4

5. Section 13207, Paragraph 2.M, delete "~~1. Ground Storage Tank 3 and 4 exterior shall be coated in accordance with Section 09940. The color shall be specified by the Owner with respect to the Service Condition.~~

~~Ground Storage Tank 3 and 4 interior shall be coated in accordance with Section 09940.~~

~~The Exterior of Existing Ground Storage Tanks 1 and 2 to be coated in accordance with Section 09940. The existing coating system shall be removed, or primed, in order to apply the new system. The color shall be specified by the Owner with respect to the Service Condition. The Interior of Existing Ground Storage Tanks 1 and 2 shall be patched in locations as required to repair the existing systems in cases where the existing systems are damaged due to the new improvements. All repair of the existing system shall be compatible with the existing system."~~

and replace with the following: "The Exterior of Ground Storage Tanks 1, 2, 3 and 4 shall be coated in accordance with the following. The existing coating system shall be removed, or primed, as recommended by the coating manufacturer, in order to apply the new system. The color shall be specified by the Owner with respect to the Service Condition. a. Surface Preparation:

(1) Surface preparation of concrete and masonry surfaces shall be in accordance with SSPC SP-13 and the following.

(2) Do not apply coating until concrete has cured at least 30 days. Finish concrete surfaces per Section 03350. Do not use curing compound on surfaces that are to be coated.

(3) Concrete and masonry surfaces on which coatings are to be applied shall be of even color, gray or gray-white. The surface shall have no pits, pockets, holes, or sharp changes of surface elevation. Scrubbing with a stiff-bristle fiber brush shall produce no dusting or dislodging of cement or sand. Sprinkling water on the surface shall produce no water beads or standing droplets. Concrete and masonry shall be free of laitance and slick surfaces.

(4) Detergent clean the concrete or masonry surface with trisodium phosphate per ASTM D4258. Then sandblast surfaces (brush-off blast). Floor slabs may be acid etched per ASTM D4260 in lieu of sandblasting. After sandblasting, wash surfaces with water to remove dust and salts, per ASTM D4258 or D4261. The grain of the concrete surface to touch shall not be rougher than that of No. 10 mesh sand.

(5) Prior to coating concrete, plaster, and masonry, determine the presence of capillary moisture per ASTM D4263, except as modified below. Tape a 4-foot by 4-foot sheet of polyethylene plastic to the concrete surface to be coated. Allow the plastic sheet to remain in place at least 24 hours. After the specified time has elapsed, remove the plastic sheet and visually examine both the underside of the plastic sheet and the concrete surface beneath it. There shall be no indication of moisture on either surface. If moisture is indicated, allow additional curing time for the concrete and then retest. Provide one test sheet for every 500 square feet of concrete surface to be coated. For walls, provide one test sheet for each 10 feet (or fraction thereof) of vertical rise in all elevations starting within 12 inches of the floor or base slab.

(6) Acceptance criteria for concrete surfaces shall be in accordance with SSPC SP-13, Table 1, "Severe Service."

(7) Do not apply coatings to concrete when the concrete is outgassing. Apply coatings only when the concrete surface temperature is stable, not rising.

c. Prime Coat:

Water-borne acrylic or cementitious acrylic emulsion having a minimum solids volume of 40%. Apply one coat of Carbolite Sanitile 100 to fill all voids, pores, and cracks; Tnemec 1254 Masonry Filler; Sherwin-Williams Heavy Duty Block Filler B42W46; or equal to masonry only from 75-125 square feet per coat.

d. Finish Coat:

Two coats of Carboline Carbocrylic 3359, two coats Tnemec Series 6, Sherwin-Williams DTM Acrylic Coating Semi-Gloss B66-100 series, or equal, with coating having a minimum solids volume of 36%. Apply to a thickness of 2 mils per coat.

2. Interior Paint System:

a. The Interior of Existing Ground Storage Tanks 1 and 2 shall be patched in locations as required to repair the existing systems in cases where the existing systems are damaged due to the new improvements. All repair of the existing system shall be compatible with the existing system and in accordance with Coating System C4 per Section 09940.

b. Ground Storage Tank 3 and 4 interior shall be coated in accordance with Coating System C4 per Section 09940.”

6. Section 11114, Paragraph 2-6.04, delete “~~The pump manufacturer shall be responsible for furnishing the adjustable frequency drive, for matching the motor and the drive, and for coordinating the collection of data and the design to limit harmonics to the levels specified.~~” and replace with “The Electrical Contractor shall be responsible for furnishing the variable frequency drive, for matching the motor and the drive, and for coordinating the collection of data and the design to limit harmonics to the levels specified.”
7. Section 11154, Paragraph 2-8.02, delete “~~The pump manufacturer shall be responsible for furnishing the adjustable frequency drive, for matching the motor and the drive, and for coordinating the collection of data and the design to limit harmonics to the levels specified.~~” and replace with “The Electrical Contractor shall be responsible for furnishing the variable frequency drive, for matching the motor and the drive, and for coordinating the collection of data and the design to limit harmonics to the levels specified.”
8. Section 11160, Paragraph 2-6.04, delete “~~The pump manufacturer shall be responsible for furnishing the adjustable frequency drive, for matching the motor and the drive, and for coordinating the collection of data and the design to limit harmonics to the levels specified.~~” and replace with “The Electrical Contractor shall be responsible for furnishing the variable frequency drive, for matching the motor and the drive, and for coordinating the collection of data and the design to limit harmonics to the levels specified.”
9. Section 11214, Paragraph 1.B.6a, delete “~~Variable frequency motor controllers can be supplied by the Contractor or the pump manufacturer at the Contractor’s option.~~” And replace with “Variable frequency motor controllers shall be supplied by the Electrical Contractor.”

10. Section 11311, Paragraph 2.04, delete “~~The VFD shall be supplied by the pump manufacturer.~~” And replace with “The VFD shall be supplied by the Electrical Contractor.”

C. DRAWINGS

1. Sheet S-36, Relocated Belt Filter Press Foundation – Enlarged Plan, provide concrete grout over existing slab with low point at existing drain and high point at new curb. Grout slopes, LP Elevation, HP Elevation shall be similar to that depicted on S-33 for Gravity Belt Thickener Pit. Provide bonding agent between grout and existing slab at both Gravity Belt Thickener and Relocated Belt Filter Press locations.
2. Sheet S-5, add note “8. Existing reinforcement shall be initially verified using non-destructive methods such as GPR. Concrete shall be chipped back in at least four locations over the subject reinforcement as directed by engineer to reveal the top half of reinforcement.”
3. On Sheet CD-4, Detail B, add the following: “Note 3. Unless otherwise noted, plug valves shall be Type 510 or Type 520 per Specification Section 15100. Note 4. Unless otherwise noted, butterfly valves shall be Type 200 per Specification Section 15100.” On Sheet CD-4, Detail C, add the following: “Note 3. Unless otherwise noted, plug valves shall be Type 510 or Type 520 per Specification Section 15100. Note 4. Unless otherwise noted, gate valves shall be Type 185 per Specification Section 15100.”

D. BIDDER QUESTIONS

1. **Will Morrison Pump Company be included in the pre-approved pump manufacturer list for the Vertical Turbine Pumps?**
No. Substitute material and equipment may be considered after execution of the contract in accordance with Part C-Instructions to Bidders, Paragraph 7.
2. **Will Seepex Grinders be included in the pre-approved pump manufacturer list for the Grinders?**
No. Substitute material and equipment may be considered after execution of the contract in accordance with Part C-Instructions to Bidders, Paragraph 7.
3. **The following is the last sentence of paragraph “e. Good Faith Effort Documentation Requirements”. “(ALL GOOD FAITH EFFORT**

DOCUMENTATION MUST BE SUBMITTED WITH THE BID)”, however paragraph “iv” of this same section gives 24 hours for the three apparent low Bidders to send in ALL quotations received from MWBE AND the listed non-MWBE. Please confirm that we will still be allowed the 24hr period to submit the quotes as stated in paragraph “iv”, on page C-6, as it is next to impossible to include those with the bid on bid day.

Please refer to item A.2. for a revision to this requirement.

4. **Will Ashbrook Coplastix gates be included in the pre-approved list for the pre-treatment facility gates?**

No. Substitute material and equipment may be considered after execution of the contract in accordance with Part C-Instructions to Bidders, Paragraph 7.

5. **Will PREVENT-C be included in the pre-approved list for a waterproofing admixture?**

No. Substitute material and equipment may be considered after execution of the contract in accordance with Part C-Instructions to Bidders, Paragraph 7.

6. **The bid items numbers 2.0, 3.0 and 4.0 cover concrete rehabilitation and repair work. Measurement and Payment specification section 01025, paragraphs 1.03 A. 2., 3, and 4. state, “...as shown and specified on Contract Documents, and as directed by the Engineer.”. On numerous drawings in the Demolition series of the bidding documents there are notes requiring concrete repair, patching and references to detail A on drawing SD-4. Will this noted work on the demolition drawings be paid for by the referenced bid item numbers as unit price work or should the bidders include this work in the lump sum bid item number 1.0?**

Concrete repair work shall be paid for by the reference bid item numbers as unit price work. Estimated quantities for bid are provided on the bid form.

7. **Bid item number 5.0 is a unit price scope of work for repair of expansion joint. Specification section 03730 Concrete Repair does not include information for expansion joint repair. We have not found a drawing detail showing how the expansion joints are to be repaired. Please provide further information of what the scope of work will include for the repair of expansion joints and the type and thickness of the expansion joint material that will be required.**

Expansion joint repair procedure is described on Sheet S-3, Note 6.

8. **In reference to specification 03300 2.01 G. 7., Integral Waterproofing Admixture, please provide a list of structures that will require this concrete admixture. The referenced paragraph states, "...used in walls and slabs of water retaining structures at manufacturer's recommended dosage rates.". Does this requirement apply to the new Ground Storage Tanks No. 1 and No. 2, the new walls and slabs constructed in the existing basins being modified, precast manholes, etc.?**

Integral waterproofing admixture is only required in walls and slabs of cast-in-place water retaining structures. It is not required in prestressed tank structures, precast structures, and in existing basin walls that are being strengthened.

9. **In reference to specification section 03300 3.04 G., it states, "Place vapor barrier under structural slabs and buildings and where shown on contract drawings.". Please clarify if vapor barrier will be required under all slabs with reinforcing steel or wire mesh or, only where vapor barrier is specifically called out on the drawings?**

Vapor retarder is required under slabs of all structures that are air-conditioned, slabs that receive a coating, and slabs shown on contract drawing with a vapor barrier underneath.

10. **In reference to specification section 03300 3.07 E. please confirm the County will retain the services of the independent testing agency as specified in specification section 01400.**

Concrete quality testing required in Section 03300, 3.07E, shall be provided by an independent testing agency retained by the County. Please refer to item B.2 for a revision related to this question.

11. **In reference to 09940, paragraph 3-10. states, "All surfaces, including basin walls, in contact with treated or potable water." At what point in the process is the water considered to be treated? Another way to ask the question would be, will the interior concrete walls and mat foundation slabs of the various new and modified existing treatment tanks and basins require protective coatings?**

New and modified existing treatment tanks and basins will require protective coatings as listed in Sections 09940 and 09970. Ground Storage Tanks shall

be coated per Section 13207. Please refer to items B.4 and B.5 for revisions related to this question.

- 12. Should the bidders include the cost of the new internal column supports in lump sum bid item number 1.0, or will this be handled as a change order if the columns are determined to be required after verification of the reinforcement?**

Bidders shall include the cost of new internal column supports in lump sum bid item. A deduct to the owner shall be applied if these supports are not required. Costs of required reinforcement verification shall be included in the Lump Sum Bid 1.0. Please refer to item C.2 for a revision related to this question.

- 13. Could you please have the engineer provide a pipe schedule as referenced in spec section 15050? Also, please provide a valve schedule. There are multiple types of valves with no way of knowing which valve is to be used in each location. For example, on sheet C-31 there is a 30 VBF on the raw water line, but there is no way of knowing which type of butterfly valve this is in the specifications.**

The pipe schedule is provided on Sheet G-4. Please refer to item C.3 for a revision related to this question.

- 14. Who is to provide the VFD's on this project; the pump supplier or the electrical contractor?**

VFDs are to be provided by the Electrical Contractor. This requirement supersedes all individual equipment specifications that state otherwise. The term variable frequency drive is synonymous with adjustable frequency drive and variable frequency motor controllers, as specified in Section 16370. Please refer to items B.6-10 for revisions related to this question.

E. ATTACHMENTS: NONE

- F. The Bidder shall acknowledge receipt of this addendum by completing the applicable section in the solicitation or by completion of the acknowledgement information on the addendum. Either form of acknowledgement must be completed and returned not later than the date and time for receipt of the bid.**

G All other terms and conditions remain the same.

Receipt acknowledged by:

Authorized Signature

Date Signed

Title

Name of Firm