

ADDENDUM NO. 2  
TO THE CONTRACT DOCUMENTS  
for the construction of the  
**City of Suffolk G. Robert House, Jr. WTP Phase IIIA Expansion Project**

Date: June 21, 2012  
IFB#: 2012-00053

**To All Planholders and/or Prospective Bidders:**

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents for the construction of the City of Suffolk G. Robert House, Jr. WTP Phase IIIA Expansion Project dated May 2012 as fully and completely as if the same were fully set forth therein:

PART 1, PROCUREMENT REQUIREMENTS

1. Section 00 41 13, Bid Form:
  - a. Article 7.1.2, List of Project References: Bidder shall provide detailed project descriptions for a minimum of three (3) recently completed water treatment plant construction projects that demonstrate Bidder's ability to successfully perform projects of a similar size and scope. Include references with contact information for each project. Bidder shall also provide a listing of other water and wastewater treatment plant construction projects completed in the last seven (7) years.

PART 3, SPECIFICATIONS

1. Section 23 09 13, HVAC Controls, Field Components, and Instruments:
  - a. ADD new Section attached.
2. Section 23 34 00, HVAC Fans:
  - a. REPLACE the second page of the Fan Schedule (Supplement 23 34 00.01 page 2) with new page attached (added fourth column for EF-111-7).
3. Section 23 81 00, Unitary Air-Conditioning Equipment:
  - a. REPLACE the Split System DX Indoor Units Schedule (Supplement 23 81 00.01) with new schedule attached (added third column for ACU-113-101 and ACU-113-102).
  - b. REPLACE the Split System DX Outdoor Units Schedule (Supplement 23 81 00.03) with new schedule attached (added third column for ACCU-113-103 and ACCU-113-104).

4. Section 31 23 23, Fill and Backfill:

a. DELETE the following Articles:

- i. 1.02.D, Earthfill
- ii. 1.02.F, Granular Fill
- iii. 1.02.N, Selected Backfill Material
- iv. 2.05, Select Backfill

b. Article 2.04.A: REVISE portion of sentence reading "... with liquid limit less than 50 and plasticity index less than 20." to "...with liquid limit less than 40 and plasticity index less than 20."

c. DELETE Articles 3.03 and 3.04 REPLACE with the following:

"3.03 Fill and Backfill Under and Around Structures

A. Beneath and within influence area of structures not supported on piles, pavements, slabs on grade, curbs, piping, conduits, duct banks, and other facilities:

- 1. Place earthfill with proper allowance for final surfacing and minimum requirements specified herein.
- 2. Place a minimum of 6 inches of granular fill, unless otherwise shown.
- 3. Place earthfill and granular fill in lifts of 6-inch maximum thickness.
- 4. Compact each lift of earthfill and granular fill to not less than 98 percent relative compaction.
- 5. Place and compact fill across full width of embankment.

B. Beneath pile supported structures and slabs:

- 1. Place earthfill with proper allowance for final surfacing and minimum requirements specified herein.
- 2. Place earthfill in lifts of 6-inch maximum thickness.
- 3. Compact each lift of earthfill to not less than 95 percent relative compaction.
- 4. Place a minimum 8 inches of No. 57 stone and compact to provide a working surface.

- C. Outside Influence Areas Beneath Structures, Pavements, Curbs, Slabs, Piping, and Other Facilities: Unless otherwise shown, place earthfill as follows:
  - 1. Allow for 6-inch thickness of topsoil where required.
  - 2. Maximum 8-inch thick lifts.
  - 3. Place and compact fill across full width of embankment.
  - 4. Compact to not less than 95 percent relative compaction.
  - 5. Dress completed embankment with allowance for topsoil, and slope protection, where applicable
- D. Fill with CLSM backfill in areas shown on the Contract Drawings and in areas where it is impractical to mechanically compact due to restrictions for access of hand operated compaction equipment.”

5. Section 40 27 00, Process Piping, General:

a. Supplement – Piping Schedule:

i. Interim Backwash Waste Solids – IBWWS:

- 1. REVISE material for exposed (EXP) and encased (ENC) piping to CLDI, Section 40 27 00.01.
- 2. REVISE material for buried (BUR) piping to CLDI, Section 40 27 00.01, and HDPE, Section 40 27 00.14. Material used shall be based on limits as defined on the Drawings.

ii. Interim Clarifier Sludge – ICSL:

- 1. REVISE material for exposed (EXP) and encased (ENC) piping to CLDI, Section 40 27 00.01.
- 2. REVISE material for buried (BUR) piping to CLDI, Section 40 27 00.01, and PVC, Section 40 27 00.10. Material used shall be based on limits as defined on the Drawings.

6. Section 40 27 02, Process Valves and Operators:

- a. Articles 2.05.D.1.b and 2.05.D.2.e: ADD “4) Valmatic; Camcentric.”

7. Section 40 90 10.01, Supplement – Loop Descriptions:

- a. ADD the attached insert for the Hydrochloric Acid Transfer and Feed Pumps to the end of this Section.

8. Section 43 22 23, Centrifuges:

- a. Article 1.06.F: REVISE to read “Plant water will be supplied to the centrifuges for flushing and clean in place (CIP) functions.”
- b. Article 1.11.A.1: REVISE to read “Vendor shall supply lubricants sufficient for testing, startup, and 1 year operation based on 8 hours of operation per week for each machine.”
- c. Article 1.11.D: REVISE second sentence to read “Lubricants and filters shall be provided by the manufacturer as frequently as required during the period between successfully completed functional testing and equipment acceptance, up to a maximum period of two months.”
- d. Article 2.01.A.1: REVISE Alfa-Laval Model No. to “ALDEC G2-75”
- e. Article 2.01.A.2: REVISE Westfalia Model No. to “CF-466”
- f. Article 2.01.A.3: REVISE to read: “Andritz Separation; D4 series.”
- g. Article 2.02.A.1: REVISE to read “Thickened residuals feed concentration (excluding polymer): 1.5 to 6 percent dry solids basis.”
- h. Article 2.02.A.2: REVISE first sentence to read “Hydraulic feed rate range: 25 to 100 gpm.”
- i. Article 2.02.A.3: REVISE to read “Required dewatering cake solids concentration: 22 to 25 percent dry solids.”
- j. Article 2.06.A: REVISE to read: “The centrifuge bowl shall be a maximum 75 inches long (from hub to hub) with a minimum inside diameter of 17 nominal inches in the cylindrical section plus a conical beach extension.”
- k. Article 2.06.G: REVISE to read: “Centrifugally cast bowls shall be dye penetrant inspected. Conduct testing on minimum of one bowl within each batch and provide casting certificate. Rolled and welded or statically cast bowls shall not be allowed.”
- l. Article 2.07.D: REVISE the first sentence to read: “Perform manufacturer’s standard torque testing of the abrasion protection tiles on the scroll conveyor flighting.”
- m. Article 2.09.A: REVISE the fourth sentence to read: “Cyclo gear boxes shall be capable of withstanding a 500 percent momentary overload and 150 percent intermittent overload.”

- n. Article 2.11.A: REVISE the second sentence to read: “Each main bearing shall be forced oil or grease lubricated ball or cylindrical roller type bearings.”
  - o. Article 2.13.B.1: ADD the following to the end of the first sentence:  
“Acceptable AFD manufacturers are ABB and Allen Bradley in addition to the manufacturers listed in Section 26 29 23. Provide 6-pulse PWM AFD with 5% line input reactor.”
  - p. Article 2.13.C.3: REVISE the backdrive motor minimum horsepower to “10 hp”.
  - q. Article 2.13.D.2: REPLACE the second sentence with the following:  
“Acceptable AFD manufacturers are ABB and Allen Bradley in addition to the manufacturers listed in Section 26 29 23. Provide 6-pulse PWM AFD with 5% line input reactor.”
9. Section 44 42 56.04, Submersible Pumps:
- a. Section 44 42 56.04-01, Waste Pump Data Sheet:
    - i. Page 1: REVISE ITT Flygt Pump Model Number to “NP 3102.181 MT”.
    - ii. Page 1: REVISE Min. Rated Pump Efficiency (%) to “65”.
    - iii. Page 2: REVISE Materials for Shaft Seals to “Tungsten Carbide/Tungsten Carbide”.
  - b. Section 44 42 56.04-02, Centrate Pump Data Sheet:
    - i. Page 1: REVISE Min. Rated Pump Efficiency (%) to “45”.
    - ii. Page 2: REVISE Materials for Shaft Seals to “Tungsten Carbide/Tungsten Carbide”.
  - c. Section 44 42 56.04-03, Interim Backwash Pump Data Sheet:
    - i. Page 1: REVISE Pump Size and Type to “3-inch, non-clog submersible”.
    - ii. Page 1: REVISE ITT Flygt Pump Model Number to “NP 3102.181 SH”.
    - iii. Page 2: REVISE Materials for Shaft Seals to “Tungsten Carbide/Tungsten Carbide”.

- iv. Page 3: REVISE pump name in Data Sheet header to “Interim Backwash Waste Pumps”.

10. Section 44 42 56.14, Lobe Pumps:

- a. Article 2.03.A.4: ADD new paragraph “f. Pump shall be capable of operating at a minimum capacity of 25 US gpm.

11. Section 44 44 63.05, Polymer Makeup and Feed Systems, Liquid and Dry:

- a. Article 2.03.A: DELETE the reference to the “275-gallon chemical tote” in the third line and REPLACE with: “provisions for receiving liquid polymer from a 275-gallon chemical tote (chemical tote provided by Owner)”.
- b. ADD Article 2.10.G as follows:

“G. Polymer Tote Containment Units:

1. Provide two (2) spill containment pallets designed for the safe handling and dispensing of liquid polymer from 275-gallon liquid polymer chemical totes.
2. Polyethylene construction. Forkliftable design low profile type pallet with maximum overall height not greater than 30 inches and 52-inch square minimum deck area. Include drain valve.
3. Pallet shall be structurally designed to provide proper support and uniformly distribute load from the liquid polymer chemical tote.
4. Manufacturers: UltraTech Ultra-IBC Spill Pallet Plus, or equal.”

DRAWINGS

1. Drawing 001-G-009 (Sheet 10):

- a. Foundations, Note 3: REVISE Note to read as follows:

“ALL FOUNDATION SLABS, SLABS-ON-GRADE, AND WALL AND COLUMN FOUNDATIONS, UNLESS NOTED OTHERWISE, SHALL BEAR ON

8 INCHES OF NO. 57 STONE, PER THE SPECIFICATIONS, AND AUGER CAST GROUT PILES.

REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.”

PHASE IIIA EXPANSION

2. REPLACE Drawing 002-D-102 (Sheet 27) with new Drawing attached.
3. REPLACE Drawing 003-C-106 (Sheet 39) with new Drawing attached.
4. REPLACE Drawing 004-YP-101 (Sheet 48) with new Drawing attached.
5. REPLACE Drawing 004-YP-104 (Sheet 51) with new Drawing attached.
6. REPLACE Drawing 004-YP-107 (Sheet 54) with new Drawing attached.
7. Drawings 070-M-101.1 (Sheet 119), 070-M-101.2 (Sheet 120), and 070-M-204 (Sheet 128):
  - a. Liquid Polymer Storage Totes as shown on Drawings will be provided by the Owner.
  - b. Polymer Tote Containment Units as shown on Drawings shall be provided by the Contractor (refer to revisions to Section 44 44 63.05 above).

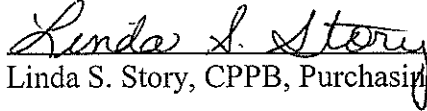
STANDARD DETAILS

1. Detail 3212-211, Asphalt Roadway Section:
  - a. REPLACE call out to fill slope from "SELECT BACKFILL MATERIAL AS SPECIFIED IN SECTION 31 23 23 COVERED WITH 4" TOPSOIL" to "EARTHFILL MATERIAL AS SPECIFIED IN SECTION 31 23 23 COVERED WITH 4" TOPSOIL".

PHASE IIIA EXPANSION

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 2 in the Bid Form or by submitting the Addendum with the bid package. Bid Forms submitted without acknowledgment or without this Addendum will be considered in nonconformance.

CITY OF SUFFOLK

  
Linda S. Story, CPPB, Purchasing Agent

Appended hereto and part of Addendum No. 2:

- A. Section 23 09 13, HVAC Controls, Field Components, and Instruments
- B. Section 23 34 00, Fans, Fan Schedule - Supplement 23 34 00.01, page 2
- C. Section 23 81 00, Unitary Air-Conditioning Equipment, Split System DX Indoor Units Schedule - Supplement 23 81 00.01
- D. Section 23 81 00, Unitary Air-Conditioning Equipment, Split System DX Outdoor Units Schedule - Supplement 23 81 00.03
- E. Section 40 90 10.01, Supplement – Loop Descriptions, Insert for Hydrochloric Acid Transfer and Feed Pumps
- F. Drawing 002-D-102 (Sheet 27)
- G. Drawing 002-C-106 (Sheet 39)
- H. Drawing 004-YP-101 (Sheet 48)
- I. Drawing 004-YP-104 (Sheet 51)
- J. Drawing 004-YP-107 (Sheet 54)

**END OF ADDENDUM**