

Document 00910

ADDENDUM NO. 2

Date of Addendum: 12/16/15

PROJECT NAME: East Water Purification Plant – Chemical Feed Systems
Improvements – Bid Package 3 – Plant 1-2 Improvements

PROJECT NO: WBS No. S-000056-0071-4

BID DATE: 01/07/2016 (Bid Date has changed.)

FROM: J. Timothy Lincoln , P.E., City Engineer
City of Houston, Department of Public Works and Engineering
611 Walker Street
Houston, Texas 77002
Attn: John Msigwa, P.E., Project Manager

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

CHANGE IN BID DATE

The Bid Date for this Project has been changed from Thursday December 17, 2015 to Thursday January 7, 2016. Time of day and place for submittal remains the same.

This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars (|) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number in the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.



CHANGES TO PROJECT MANUAL

INTRODUCTORY INFORMATION

There are no changes to the Introductory Information

BIDDING REQUIREMENTS

1. Section 00210 – SUPPLEMENTARY INSTRUCTIONS TO BIDDERS:
Remove page 00210-4 and replace with attached, revised Page 00210-4.
2. Section 00410B – BID FORM – PART B: Remove pages 00410B-1
through 00410B-10 and replace with attached, revised Pages 00410B-1
through 00410B-10.

CONTRACT FORMS

There are no changes to the Contract Forms in this Addendum.

CONDITIONS OF THE CONTRACT

There are no changes to the Conditions of the Contract in this Addendum.

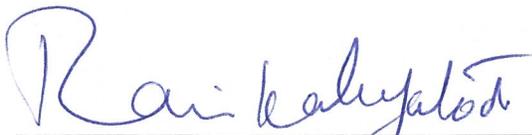
SPECIFICATIONS

1. Section 01110 – SUMMARY OF WORK: Remove Page 01110-4 and replace
with attached, revised Page 01110-4.

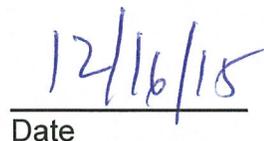
DRAWINGS

There are no changes to the Drawings in Addendum No. 2.

END OF ADDENDUM NO. 2



Ravi Kaleyatodi, P.E., CPM
Senior Assistant Director
Department of Public Works and Engineering



Date

SM
SD.

END OF DOCUMENT

A. Add the following Paragraph A.1:

1. City Secretary will receive Bids at 900 Bagby, Room P101, Houston, Texas until 10:30 a.m., local time on January 7, 2016.

15.0 – PREBID MEETING: Add the following Paragraph A.1 to this Section:

A. Add the following Paragraph A.1:

1. A Prebid Meeting will be held at 10:00 A.M. on Tuesday, December 1, 2015, in Training Room Plant 1, EWPP, 2300 Federal Road, Houston, Texas 77015.

END OF DOCUMENT

Document 00410B

BID FORM – PART B

1.0 TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE NUMERICAL AMOUNTS):

A. STIPULATED PRICE: \$ N/A

(Total Bid Price; minus Base Unit Prices, Extra Unit Prices, Cash Allowances and All Alternates, if any)

B. BASE UNIT PRICE TABLE:

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
1.	01502	Mobilization	LS	1	\$200,000 ⁽¹⁾	\$200,000 ⁽¹⁾
2.	01570	Reinforced Filter Fabric Barrier (RFB)	LF	470		
3.	02260	Trench Safety System	LF	200		
4.	01110 01114 01650 and Div 01 - 16	a. Construction of improvements to the EWPP Plant 1-2 Roadway System, including demolition of existing paving and chemical unloading stations and construction of new storm drainage components, paving, and chemical unloading stations, as shown on the Drawings. b. Construction of improvements to the existing aqueous ammonia (ammonia) storage and feed system, including demolition of the existing system to the extent shown on the Drawings; replacement of existing ammonia storage tank instrumentation and valves; replacement of ammonia day tanks, replacement of ammonia metering pumps, and	LS	1		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
		<p>replacement of associated piping, valves, instruments and appurtenances as shown on the Drawings.</p> <p>c. Construction of improvements to the existing sodium hydroxide (caustic) storage and feed system, including demolition of the existing bulk tank recirculation pumps as shown on the Drawings. Cleaning, inspection and testing of the two existing caustic bulk storage tanks, replacement of existing caustic storage tank instrumentation. Replacement of instrumentation and accessories on the caustic transfer pumps as shown on the Drawings. Replacement of caustic feed pumps and related piping and instrumentation as shown on the Drawings.</p> <p>d. Construction of improvements to the existing lime storage and feed system, including demolition of the existing system to the extent shown on the Drawings. Clean inspect and relocate two existing lime slurry bulk storage tanks to new lime storage and feed areas (Areas 21 and 26). Construction of new lime storage and feed facilities as shown on the Drawings.</p> <p>e. Construction of improvements to the existing powdered activated carbon (PAC) storage and feed system including demolition and replacement of existing feed pumps and utility water</p>				

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
		<p>booster pumps, and other modifications as shown on the Drawings.</p> <p>f. Construction of improvements to the existing hydrofluorosilicic acid (fluoride) storage and feed system, including cleaning, inspection and refurbishment of the two existing bulk fluoride storage tanks, demolition of the existing system to the extent shown on the Drawings, replacement of existing fluoride storage tank instrumentation, replacement of fluoride transfer pumps, replacement of the fluoride day tanks, and system piping, valves, instruments and appurtenances as shown on the Drawings.</p> <p>g. Construction of improvements to the existing flocculant aid polymer storage and feed system, including replacement of an existing blending unit, installation of new day tank mixers, and modifications to the operating sequence as shown on the Drawings.</p> <p>h. Construction of improvements to the existing filter aid polymer feed system, including replacement of three existing blending units and modifications to the operating sequence as shown on the Drawings.</p> <p>i. Construction of improvements to the existing coagulant aid polymer storage and feed system, including replacement of</p>				

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
		<p>existing blending units, installation of new day tanks, installation of new day tank mixers, and replacement of associated coagulant aid polymer system piping, valves, instruments and appurtenances as shown on the Drawings.</p> <p>j. Construction of improvements to the existing ferric sulfate/alum feed system including cleaning, inspection and refurbishment of the six existing bulk storage tanks; replacement of transfer pumps; and replacement of piping, valves and instruments on the existing transfer and feed pumps as shown on the Drawings.</p> <p>k. All necessary electrical system modifications, including new equipment, conduit, wiring, etc, as shown on the various Electrical Drawings</p> <p>l. Modifications to the EWPP Plant 1-2 instrumentation and control system, including SCADA system programming, as shown on the Drawings and as specified in Division 13.</p> <p>m. Provide electronically completed Technical Asset Data forms in accordance with specification 01650 using electronic Microsoft Excel format template provided by CM. Submit hard copies of all electronic files.</p>				
5.	13210	Cleaning, inspection and testing of two bulk aqueous ammonia storage tanks, two bulk caustic storage tanks,	LS	1		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
		six bulk ferric sulfate storage tanks, two bulk hydrofluorosilicic acid tanks and two bulk lime slurry storage tanks, including removal, shipment and disposal of excess chemicals and rinsate.				
6.	11320 15102	Construction of two new temporary sludge transfer pumps and piping and valves to allow for flushing of sludge withdrawal lines in the existing Plant 3 Raw Sludge Pump Station (Area 70) Pump installation and piping will include all pumps, motors, piping, valves, electrical, instrumentation, and appurtenances for a complete and operational installation as shown and specified in the Sludge Handling Improvements Plant 3 (Supplemental Construction) Sheets 1 through 12.	LS	1		
7.	09840	Surface preparation and coating of the horizontal and vertical concrete surfaces in the interior tank and pump containment areas for two lime storage and transfer facilities.	LS	1		
<u>TOTAL BASE UNIT PRICES</u>						\$ _____

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C. EXTRA UNIT PRICE TABLE:

Item No.	Spec Ref.	Extra Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
8.	01735	Additional 8-hour days of vendor training	Day	5	_____ [\$100.00] ⁽²⁾	_____ [\$500.00] ⁽²⁾
9.	02318	Extra hand excavation	CY	50	_____ [\$100.00] ⁽²⁾	_____ [\$5,000.00] ⁽²⁾
10.	02318	Extra machine excavation and backfill	CY	100	_____ [\$25.00] ⁽²⁾	_____ [\$2,500.00] ⁽²⁾
11.	02318	Extra excavation around obstructions	CY	50	_____ [\$100.00] ⁽²⁾	_____ [\$5,000.00] ⁽²⁾
12.	02318	Place and compact extra backfill material	CY	150	_____ [\$12.50] ⁽²⁾	_____ [\$1,875.00] ⁽²⁾
13.	02318	Furnish, place and compact extra granular backfill	CY	50	_____ [\$50.00] ⁽²⁾	_____ [\$2,500.00] ⁽²⁾
14.	02318	Furnish, place and compact extra select backfill	CY	50	_____ [\$30.00] ⁽²⁾	_____ [\$1,500.00] ⁽²⁾
15.	02318	Extra Cement stabilized sand backfill	CY	50	_____ [\$40.00] ⁽²⁾	_____ [\$2,000.00] ⁽²⁾
16.	02751	7-inch reinforced concrete pavement with 8-inch lime stabilized subgrade	CY	50	_____ [\$50.00] ⁽²⁾	_____ [\$2,500.00] ⁽²⁾
17.	03300	Reinforcing steel	LB	800	_____ [\$0.75] ⁽²⁾	_____ [\$600.00] ⁽²⁾
18.	03300	Class B (3,000 psi) concrete	CY	20	_____ [\$370.00] ⁽²⁾	_____ [\$7,400.00] ⁽²⁾
19.	03300	Class C (4,000 psi) concrete	CY	20	_____ [\$420.00] ⁽²⁾	_____ [\$8,400.00] ⁽²⁾
20.	03300	Extra Class A (4,000 psi) structural concrete	CY	40	_____ [\$290.00] ⁽²⁾	_____ [\$11,600.00] ⁽²⁾
21.	03600	Extra non-shrink epoxy grout (14,000 psi)	CF	10	_____ [\$250.00] ⁽²⁾	_____ [\$2,500.00] ⁽²⁾
22.	03600	Extra concrete grout (2,500 psi min)	CY	10	_____ [\$300.00] ⁽²⁾	_____ [\$3,000.00] ⁽²⁾
23.	16111	3/4" Rigid Aluminum Conduit installed above ground	LF	1000	_____ [\$9.00] ⁽²⁾	_____ [\$9,000.00] ⁽²⁾
24.	16111	1" Rigid Aluminum Conduit installed above ground	LF	1400	_____ [\$12.00] ⁽²⁾	_____ [\$16,800.00] ⁽²⁾
25.	16111	1-1/2" Rigid Aluminum Conduit installed above ground	LF	500	_____ [\$16.00] ⁽²⁾	_____ [\$8,000.00] ⁽²⁾

East Water Purification Plant – Chemical Feed Systems Improvements
 Bid Package 2 – Plant 1&2 Improvements
 WBS No. S-000056-0071-4

**BID FORM
 PART B**

Item No.	Spec Ref.	Extra Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
26.	16111	2" Rigid Aluminum Conduit installed above ground	LF	900	<u>[\$21.00]⁽²⁾</u>	<u>[\$18,900.00]⁽²⁾</u>
27.	16111	2-1/2" Rigid Aluminum Conduit installed above ground	LF	200	<u>[\$26.00]⁽²⁾</u>	<u>[\$5,200.00]⁽²⁾</u>
28.	16111	3" Rigid Aluminum Conduit installed above ground	LF	500	<u>[\$33.00]⁽²⁾</u>	<u>[\$16,500]⁽²⁾</u>
29.	16111	3/4" Schedule 80 PVC Conduit installed above ground	LF	500	<u>[\$7.00]⁽²⁾</u>	<u>[\$3,500.00]⁽²⁾</u>
30.	16111	1" Schedule 80 PVC Conduit installed above ground	LF	1500	<u>[\$8.00]⁽²⁾</u>	<u>[\$12,000.00]⁽²⁾</u>
31.	16111	1-1/2" Schedule 80 PVC Conduit installed above ground	LF	200	<u>[\$11.00]⁽²⁾</u>	<u>[\$2,200.00]⁽²⁾</u>
32.	16111	2" Schedule 80 PVC Conduit installed above ground	LF	200	<u>[\$14.00]⁽²⁾</u>	<u>[\$2,800.00]⁽²⁾</u>
33.	16402	3/4" Schedule 40 PVC Conduit installed in underground duct bank	LF	400	<u>[\$6.00]⁽²⁾</u>	<u>[\$2,400.00]⁽²⁾</u>
34.	16402	1" Schedule 40 PVC Conduit installed in underground duct bank	LF	300	<u>[\$7.00]⁽²⁾</u>	<u>[\$2,100.00]⁽²⁾</u>
35.	16402	1-1/2" Schedule 40 PVC Conduit installed in underground duct bank	LF	400	<u>[\$8.00]⁽²⁾</u>	<u>[\$3,200.00]⁽²⁾</u>
36.	16402	2" Schedule 40 PVC Conduit installed in underground duct bank	LF	100	<u>[\$9.00]⁽²⁾</u>	<u>[\$900.00]⁽²⁾</u>
37.	16402	36" x 36" x 48" deep (inside dimensions) precast concrete pull box rated for HS-20 loading with hot dip galvanized traffic cover with "Electrical" or "Instrumentation" on the cover	EA	2	<u>[\$2,500.00]⁽²⁾</u>	<u>[\$5,000.00]⁽²⁾</u>
38.	16402	Duct bank trenching, rebar, concrete encasement and backfill for a ductbank where the top of the duct bank is 48" or less below grade. The cross sectional area of the concrete encasement shall be four square feet or less.	LF	200	<u>[\$25.00]⁽²⁾</u>	<u>[\$5,000.00]⁽²⁾</u>
39.	16120	Copper No. 14 AWG conductor with XHHW-2 installation, installed in conduit	LF	8000	<u>[\$0.90]⁽²⁾</u>	<u>[\$7,200.00]⁽²⁾</u>

East Water Purification Plant – Chemical Feed Systems Improvements
 Bid Package 2 – Plant 1&2 Improvements
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**BID FORM
 PART B**

Item No.	Spec Ref.	Extra Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
40.	16120	Copper No. 12 AWG conductor with XHHW-2 installation, installed in conduit	LF	2000	$\frac{\$60,000^{(1)}}{2000}$ [\$1.20] ⁽²⁾	$\frac{\$2,400.00^{(2)}}{2000}$ [\$2,400.00] ⁽²⁾
41.	16120	Copper No. 10 AWG conductor with XHHW-2 insulation, installed in conduit	LF	2000	$\frac{\$1,400.00^{(2)}}{2000}$ [\$1.40] ⁽²⁾	$\frac{\$2,800.00^{(2)}}{2000}$ [\$2,800.00] ⁽²⁾
42.	16120	Copper No. 6 AWG conductor with XHHW-2 insulation, installed in conduit	LF	500	$\frac{\$1,900.00^{(2)}}{500}$ [\$1.90] ⁽²⁾	$\frac{\$950.00^{(2)}}{500}$ [\$950.00] ⁽²⁾
43.	16120	Copper No. 4 AWG conductor with XHHW-2 insulation, installed in conduit	LF	500	$\frac{\$2,900.00^{(2)}}{500}$ [\$2.90] ⁽²⁾	$\frac{\$1,450.00^{(2)}}{500}$ [\$1,450.00] ⁽²⁾
44.	16120	Copper No. 1 AWG conductor with XHHW-2 insulation, installed in conduit	LF	200	$\frac{\$4,100.00^{(2)}}{200}$ [\$4.10] ⁽²⁾	$\frac{\$820.00^{(2)}}{200}$ [\$820.00] ⁽²⁾
45.	16120	Copper No. 1/0 AWG conductor with XHHW-2 insulation, installed in conduit	LF	600	$\frac{\$5,200.00^{(2)}}{600}$ [\$5.20] ⁽²⁾	$\frac{\$3,120.00^{(2)}}{600}$ [\$3,120.00] ⁽²⁾
46.	16120	Copper No. 3/0 AWG conductor with XHHW-2 insulation, installed in conduit	LF	600	$\frac{\$7,300.00^{(2)}}{600}$ [\$7.30] ⁽²⁾	$\frac{\$4,380.00^{(2)}}{600}$ [\$4,380.00] ⁽²⁾
47.	16120	2/C or 3/C, # 16 AWG twisted shielded instrument cable, installed in conduit	LF	8000	$\frac{\$2,300.00^{(2)}}{8000}$ [\$2.30] ⁽²⁾	$\frac{\$18,400.00^{(2)}}{8000}$ [\$18,400.00] ⁽²⁾
48.	13210	Disposal of excess bulk storage tank contents and waste rinsate associated with cleaning bulk storage tanks for inspection and testing.	GAL	91000	$\frac{\$9,100.00^{(2)}}{91000}$ [\$0.10] ⁽²⁾	$\frac{\$9,100.00^{(2)}}{91000}$ [\$9,100.00] ⁽²⁾
49.	13210	Provide repairs to chemical bulk storage tanks recommended following inspection and testing of bulk chemical storage tanks. ⁽⁵⁾	\$	60000	$\frac{\$60,000^{(1)}}{60000}$ X Multiplier [\$1.00] ⁽²⁾	$\frac{\$60,000.00^{(2)(5)}}{60000}$ [\$60,000.00] ⁽²⁾⁽⁵⁾
50.	11078	Provide an uninstalled spare cationic polymer pump in accordance with section 11078	LS	1	$\frac{\$5,000.00^{(2)}}{1}$ [\$5,000.00] ⁽²⁾	$\frac{\$5,000.00^{(2)}}{1}$ [\$5,000.00] ⁽²⁾
51.	11078	Provide repairs, rehabilitation or replacement of chemical feed pumps recommended following inspection and testing of the pumps. ⁽⁵⁾	\$	50000	$\frac{\$50,000^{(1)}}{50000}$ X Multiplier [\$1.00] ⁽²⁾	$\frac{\$50,000.00^{(2)(5)}}{50000}$ [\$50,000.00] ⁽²⁾⁽⁵⁾
TOTAL EXTRA UNIT PRICES						$\frac{\$335,995.00^{(2)}}{1}$ [\$335,995.00] ⁽²⁾

D. CASH ALLOWANCE TABLE:

Item No.	Primary Spec Ref.	Cash Allowance Short Title	Cash Allowance in figures (1)
52.	N/A	City of Galena Park Building Permit Fee	\$25,000.00
53.	N/A	CenterPoint Energy Fee	\$25,000.00
54.	01535	Reimbursement for filtered, chlorinated water for the Contractor's use as testing flows for hydraulic and hydrostatic testing, as well as equipment checkout, field testing and functional testing	\$5,000.00
<u>TOTAL CASH ALLOWANCES</u>			<u>\$55,000.00</u>

E. ALTERNATES TABLE – N/A

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F. TOTAL BID PRICE: \$ _____
(Add Totals for Stipulated Price, Base Unit Price, Extra Unit Price, Cash Allowance, and All Alternates, if any)

2.0 SIGNATURES: By signing this Document, I agree that I have received and reviewed all Addenda and considered all costs associated with the Addenda in calculating the Total Bid Price.

Bidder: _____
(Print or type full name of your proprietorship, partnership, corporation, or joint venture.*)

**By: _____
Signature Date

Name: _____
(Print or type name) Title

Address: _____
(Mailing)

(Street, if different)

Telephone and Fax Number: _____
(Print or type numbers)

* If Bid is a joint venture, add additional Bid Form signature sheets for each member of the joint venture.

** Bidder certifies that the only person or parties interested in this offer as principals are those named above. Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

Note: This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:

- (1) Fixed Unit Price determined prior to Bid. Cannot be adjusted by the Bidder.
- (2) Minimum Bid Price determined prior to Bid. Can be increased by the Bidder, but not decreased, by crossing out the Minimum and inserting revised price on the line above. **Cannot** be decreased by the Bidder.
- (3) Maximum Bid Price determined prior to Bid. Can be decreased by the Bidder, but not increased, by crossing out the Maximum and inserting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive. **Cannot** be increased by the Bidder.
- (4) Fixed Range Bid Price determined prior to Bid. Unit Price can be adjusted by Bidder to any amount within the range defined by crossing out prices noted and noting revised price on the line above.
- (5) Basis of payment to be invoice cost times multiplier.

END OF DOCUMENT

Base Unit Price Item No. 5: Cleaning, inspection and testing of two bulk aqueous ammonia storage tanks, two bulk caustic storage tanks, six bulk ferric sulfate storage tanks, two bulk hydrofluorosilicic acid tanks and two bulk lime slurry storage tanks, including removal, shipment and disposal of excess chemicals and rinsate

Base Unit Price Item No. 6: Construction of two new temporary sludge transfer pumps and piping and valves to allow for flushing of sludge withdrawal lines in the existing Plant 3 Raw Sludge Pump Station (Area 70) Pump installation and piping will include all pumps, motors, piping, valves, electrical, instrumentation, and appurtenances for a complete and operational installation as shown and specified in the Sludge Handling Improvements Plant 3 (Supplemental Construction) Sheets 1 through 12.

Base Unit Price Item No. 7: Surface preparation and coating of the horizontal and vertical concrete surfaces in the interior tank and pump containment areas for two lime storage and transfer facilities

C. Work included in the Extra Unit Items included in the Extra Unit Price Table, prices to be provided in Section 00410, Part B, Paragraph C, shall consist of the following items:

Extra Unit Price Item No. 8: Additional 8-hour days of Vendor Training

Extra Unit Price Item No. 9: Extra hand excavation

Extra Unit Price Item No. 10: Extra machine excavation and backfill

Extra Unit Price Item No. 11: Excavation around obstructions

Extra Unit Price Item No. 12: Place and compact extra backfill material

Extra Unit Price Item No. 13: Furnish, place and compact extra granular backfill

Extra Unit Price Item No. 14: Furnish place and compact extra select backfill

Extra Unit Price Item No. 15: Extra cement stabilized sand backfill