ADDENDUM No. No. 1

Date June 23, 2015

City of Austin

Project Name Ullrich Water Treatment Plant Raw Water Hydraulic and Energy Efficiency Improvements Low Service Pump Station

C.I.P. No. 5335.027

This Addendum forms a part of Contract and clarifies, corrects or modifies original Bid Documents, dated June 2015. Acknowledge receipt of this addendum in space provided on bid form. Failure to do so may subject bidder to disqualification.

A. Project Manual Revisions:

VOLUME 1 OF 3

TABLE OF CONTENTS

Replace "Rev. Date 02/23/10" in footnotes with "Rev. Date 05/11/15".
Replace date of Section 00810 with 05/11/15.

SECTION 00020 – INVITATION TO BIDS

Delete this section in its entirety and replace with the attached revised Section 00020 – Invitation to Bids.

SECTION 00300L – LUMP SUM BID FORM

Delete this section in its entirety and replace with the attached revised Section 00300L – Lump Sum Bid Form.

SECTION 00810 – SUPPLEMENTAL GENERAL CONDITIONS

Delete page 1 of 8 in its entirety and replace with the attached revised page 1 of 8.

SECTION 01045 – SEQUENCE OF CONSTRUCTION

Under Paragraph 3.06, Replacement of Wet Well Stop Gates and Screens, insert the following paragraph:

"D. CONTRACTOR is responsible for ensuring the replacement parts are compatible with all pertinent equipment and structures that are not being replaced, thus forming a complete working system. CONTRACTOR shall operate and excise the replacement parts to their full operating range to demonstrate their working status.

SECTION 01900a – NON-USE OF ASBESTOS STATEMENT (E/A PRIOR TO DESIGN)

Delete this section in its entirety and replace with the attached revised Section 01900a – Non-Use of Asbestos Statement (E/A Prior to Design).

SECTION 01900b – NON-USE OF ASBESTOS STATEMENT (E/A AFTER TO DESIGN)

Delete this section in its entirety and replace with the attached revised Section 01900a – Non-Use of Asbestos Statement (E/A after Design).

SPECIAL PROVISION TO STANDARD SPECIFICATION 401S STRUCTURAL EXCAVATION AND BACKFILL

Delete this section in its entirety and replace with the attached revised SPECIAL PROVISION TO STANDARD SPECIFICATION 401S STRUCTURAL EXCAVATION AND BACKFILL.

VOLUME 2 OF 3

TABLE OF CONTENTS

Replace "Rev. Date 02/23/10" in footnotes with "Rev. Date 05/11/15".
Replace date of Section 00810 with 05/11/15.

SECTION 15062 – DUCTILE IRON PIPE AND FITTINGS

Delete Page 3 of 5 in its entirety and replace with the attached revised Page 3 of 5.

SECTION 15117 – REHABILITATION OF PUMP CONTROL VALVES

Delete this section in its entirety and replace with the attached revised Section 15117.

B. Drawing Revisions:

None.

This addendum consists of 20 page(s)/sheet(s).

James R. Steed
Approved by OWNER

6/23/2015
Approved by ENGINEER/ARCHITECT

END

Following is a summary of information for this Project. Bidder is cautioned to refer to other sections of the Project Manual, Drawings and Addenda (Bid Documents) for further details.

The City of Austin, hereafter called OWNER, is requesting sealed written Bids for furnishing all labor, materials, equipment, supervision, and incidentals, and for performing all Work required for the following Project:

Ullrich Water Treatment Plant Raw Water Hydraulic and Energy Efficiency Improvements Low Service Pump Station

Located at: 1000 Forest View Dr., Austin, TX 78746

CIP ID# 5335.027 IFB# IFB 6100 CLMC547

The Work consists of ,but not limited to, rehabilitation of two existing low service pumps, rehabilitation/replacement of multiple pump control valves and actuators, installation of three new surge tanks and associated foundation, concrete vaults, air valves, piping and accessories, replace upper and lower stop gates in each wet well, and install three new motor control centers with Multilin Controllers.

Bid Documents may be obtained at One Texas Center, 505 Barton Springs Road, Ste. 1045 (Front Desk), Austin, TX 78704. Copies will be available in CD format at no cost.

At the time Bid Documents are obtained, Bidder must provide a working e-mail address, so that they will receive any addenda or clarification issued by the Owner.

Sealed Bids will be received at the Contract Management Department, 105 W. Riverside Dr., Suite 210, Austin, Texas 78704 and then publicly opened and read aloud in the **SUITE 210 Conference Room**.

ALL BIDS ARE DUE PRIOR TO (Austin time) 10:30 AM on July 9, 2015.

ALL COMPLIANCE PLANS ARE DUE PRIOR TO (Austin time) 2:30 PM, July 9, 2015.

BIDS WILL BE OPENED AT (Austin time) 2:30 PM, July 9, 2015.

ALL BIDS AND COMPLIANCE PLANS NOT RECEIVED PRIOR TO THE DATE AND TIME SET FORTH ABOVE WILL NOT BE ACCEPTED FOR CONSIDERATION. The time stamp clock in **SUITE 210** is the time of record and is verified with www.time.gov, the official U.S. time.

All CONTRACTORS must be registered to do business with OWNER prior to the Contract Award. All Subcontractors must be registered with the OWNER prior to execution of a contract. Prime Contractors are responsible for ensuring that their Subcontractors are registered as vendors with the City of Austin. Registration can be done through the OWNER's on-line Vendor Registration system. Log onto https://www.ci.austin.tx.us/vss/Advantage and follow the directions.

All City procurements are subject to the City's Minority-Owned and Women-Owned Business Enterprise Procurement Program found at Chapter 2-9-A of the City Code, as amended. The Program provides Minority-Owned and Women-Owned Business Enterprises (MBEs/WBEs) or Disadvantaged Business Enterprises (DBEs) full opportunity to participate in all City contracts. Goals for MBE/WBE or DBE participation are stated for each solicitation. Information on achieving the goals or documenting good faith efforts to achieve the goals are contained in the MBE/WBE Procurement Program Package or DBE Procurement Program Package attached to the solicitation. When goals are established, Bidders are required to complete and return the MBE/WBE or DBE Compliance Plan with their Bid. If a Compliance Plan is not submitted prior to the date and time

set forth in the solicitation, the Bid will not be accepted for consideration. (See Section 00820 for MBE/WBE requirements on "no goal" solicitations.)

All Bids shall be accompanied by an acceptable Bid guaranty in an amount of not less than five percent (5%) of the total Bid, as specified in Section 00100, Instructions To Bidders.

Performance and payment bonds when required shall be executed on forms furnished by OWNER. Each bond shall be issued in an amount of one hundred percent (100%) of the Contract Amount by a solvent corporate surety company authorized to do business in the State of Texas, and shall meet any other requirements established by law or by OWNER pursuant to applicable law.

Minimum insurance requirements are specified in Section 00810, Supplemental General Conditions.

Minimum wage rates have been established and are specified in Section 00830, Wage Rates and Payroll Reporting.

Contract Time is of the essence and all Work shall be substantially completed within 701 Calendar Days after date specified in the Notice to Proceed, in accordance with the Bid Form, Section 00300. Final completion shall be achieved within 60 Calendar Days after substantial completion. Liquidated damages are $1,970.00 per Calendar Day for failure to substantially complete the work and $250.00 per Calendar Day for failure to achieve final completion within 60 Calendar Days after substantial completion, in accordance with the Bid Form, Section 00300.

OWNER reserves the right to reject any or all Bids and to waive any minor informality in any Bid or solicitation procedure (a minor informality is one that does not affect the competitiveness of the Bid).

A mandatory Pre-Bid Conference will be held on June 11, 2015 (date) at 10:00 AM (time)

(Austin time) at Ullrich Water Treatment Plant (location)

Austin, Texas, followed by a mandatory site visit at 11:30 am. Attendance is mandatory unless otherwise stated. Bidders must attend any mandatory Pre-Bid Conference and are encouraged to attend any non-mandatory Pre-Bid Conference and site visit, to ensure their understanding of Owner's bidding and contracting requirements, particularly MBE/WBE Procurement Program requirements. If the Pre-Bid Conference is mandatory the Bidder must arrive and sign-in within fifteen (15) minutes of the scheduled start time of the meeting, otherwise the Bidder will not be allowed to submit a Bid for the project.

The persons listed below may be contacted for information regarding the Invitation for Bid. If the Bidder contacts any other City employee, including Council Members and members of Boards and Commissions, the Bidder may be found in violation of Ordinance No. 20111110-052, dated November 10, 2011, regarding Anti-Lobbying and Procurement. The text of that Ordinance may be viewed at http://www.cityofaustin.org/edims/document.cfm?id=161145.

AUTHORIZED CONTACT PERSONS

PROJECT MANAGER: Connie Smith telephone (512) 974-7093 email connie.smith@austintexas.gov

CONTRACT COMPLIANCE REP.: Monica Lopez telephone (512) 974-7057 email monica.lopez@austintexas.gov

END

City Manager
Austin, Texas

The undersigned, in compliance with the Invitation for Bids for construction of the following Project: Ullrich Water Treatment Plant Raw Water Hydraulic and Energy Efficiency Improvements Low Service Pump Station

(CIP ID# 5335.027) (IFB# IFB 6100 CLMC547) for the City of Austin, Texas, having examined the Project Manual, Drawings and Addenda, the site of the proposed Work and being familiar with all of the conditions surrounding construction of the proposed Project, having conducted all inquiries, tests and investigations deemed necessary and proper; hereby proposes to furnish all labor, permits, material, machinery, tools, supplies and equipment, and incidentals, and to perform all Work required for construction of the Project in accordance with the Project Manual, Drawings and Addenda within the time indicated for the lump sum price of:

Bid Item	Quantity	Unit	Item Description	Amount
1	1	L.S.	Improvements to existing Low Service Pump Station at Ullrich Water Treatment Plant	$_____

EXCAVATION SAFETY SYSTEMS UNIT PRICES: The undersigned Bidder agrees that the Base Bid for the Work includes the following amounts in the Bid for excavation safety systems as specified in Item Number 509S of the Specifications and in case of an authorized adjustment to the scope of Work, the following unit price(s) will be used in adjusting the Contract Amount:

Quantity	Unit	Item Description	Unit Price	Amount
230	ln. ft.	Trench Safety systems	$_____	$_____

ALLOWANCE ITEM NO. 1: Performing Critical Speed Analysis and Finite Element Analysis for Pump Unit UL-LSPS-LWP-004, completed in place, for _____ = $ 7,500

ALLOWANCE ITEM NO. 2: Performing Critical Speed Analysis and Finite Element Analysis for Pump Unit UL-LSPS-LWP-005, completed in place, for _____ = $ 7,500

ALLOWANCE ITEM NO. 3: Installation of new sole plates and modifications to pump/motor pedestal for Pump Unit UL-LSPS-LWP-004, completed in place, for _____ = $ 27,000

ALLOWANCE ITEM NO. 4: Installation of new sole plates and modifications to pump/motor pedestal for Pump Unit UL-LSPS-LWP-005, completed in place, for _____ = $ 27,000

ALLOWANCE ITEM NO. 5: Replacement of impellers at the first (bottom) stage for Pump Unit UL-LSPS-LWP-004, completed in place, for _____ = $ 60,000

ALLOWANCE ITEM NO. 6: Replacement of impellers at the first (bottom) stage for Pump Unit UL-LSPS-LWP-005, completed in place, for _____ = $ 47,000

ALLOWANCE ITEM NO. 7: Replacement of miscellaneous pump/motor field instrumentation, completed in place, for _____ = $ 132,000

SUBTOTAL ALLOWANCES _____ = $ 308,000

TOTAL BID..... = $ _____
(Total Bid includes Allowances and Excavation Safety Systems Unit Prices, if applicable.)

Notes:

1. For a more detailed explanation of Bid allowances, see Section 01020.

UNIT PRICES: The undersigned Bidder agrees that, in case of an authorized adjustment to the scope of Work shown, the following unit price(s) will be used in adjusting the Contract Amount:

Item Description	**Unit Price**
Additional Installed Drill Shafts for Surge Tank LSPS-ST-001 in accordance with Contract Requirements, Complete in Place	=$ _____ per Vertical LF

BID GUARANTY: A Bid guaranty must be enclosed with this Bid , as required in Section 00020 or Section 00020S, in the amount of not less than five percent (5%) of the total Bid. Following the Bid opening, submitted Bids may not be withdrawn for a period of 90 Calendar Days. Award of Contract will occur within this period, unless mutually agreed between the parties. The Bid guaranty may become the property of the OWNER, or the OWNER may pursue any other action allowed by law, if:

- Bidder withdraws a submitted Bid within the period stated above;
- Bidder fails to submit the required post Bid information within the period specified in Section 00020S or 00100, or any mutually agreed extension of that period; or
- Bidder fails to execute the Contract and furnish the prescribed documentation (bonds, insurance, etc.) needed to complete execution of the Contract within five (5) Working Days after notice of award, or any mutually agreed extension of that period.

TIME OF COMPLETION: The undersigned Bidder agrees to commence work on the date specified in the written "Notice to Proceed" to be issued by the OWNER and to **substantially** complete construction of the improvements, as required by the Project Manual, Drawings and Addenda for the Work within seven hundred and one (701) **Calendar** Days, and to reach **Final Completion** within sixty (60) **Calendar** Days after **Substantial Completion** as required by the Project Manual, Drawings and Addenda for the work. The Bidder further agrees that should the Bidder fail to **finally** complete the Work within the number of days indicated in the Bid or as subsequently adjusted, Bidder shall pay the liquidated damages for each consecutive day thereafter as provided below; unless the OWNER elects to pursue any other action allowed by law.

WAIVER OF ATTORNEY FEES: In submitting its bid, in consideration for the waiver of its right to attorney's fees by the OWNER, the Bidder knowingly and intentionally agrees to and shall waive the right to attorney's fees under Section 271.153 of the Texas Local Government Code in any administrative proceeding, alternative dispute resolution proceeding, or litigation arising out of or connected to any Contract awarded pursuant to this solicitation process.

LIQUIDATED DAMAGES: The Bidder understands and agrees that the timely completion of the described Work is of the essence. The Bidder and OWNER further agree that the OWNER's actual damages for delay caused by failure to timely complete the Project are difficult, if not impossible to measure. However, with respect to the additional administrative and consultant costs to be incurred by OWNER, the reasonable estimate of such damages has been calculated and agreed to by OWNER and Bidder. Therefore, the Bidder and the OWNER agree that for each and every **Calendar** Day the Work or any portion thereof, remains incomplete after the **Substantial** Completion date as established by the above paragraph, "Time of Completion", payment will be due to the Owner in the amount of one thousand and twenty dollars ($1,970.00) per **Calendar** Day as liquidated damages, not as a penalty, but for delay damages to the OWNER. Bidder and the OWNER further agree that for each and every **Calendar** Day the Work or any portion thereof, remains incomplete after the **Final** Completion date as established by the above paragraph, "Time of Completion", payment will be due to the OWNER in the amount of two hundred and fifty dollars ($ 250.00) per **Calendar** Day as liquidated damages, not as a penalty, but for delay damages to the OWNER. Such amount shall be deducted by the OWNER from any Contract payment due. In the event of a default or breach by the CONTRACTOR and demand is made upon the surety to complete the project, in accordance with the Contract Documents, the surety shall be liable for liquidated damages pursuant to the Contract Documents in the same manner as the CONTRACTOR would have been.

OWNER reserves the right to reject any or all Bids and to waive any minor informality in any Bid or solicitation procedure (a minor informality is one that does not affect the competitiveness of the Bidders).

The undersigned acknowledges receipt of the following addenda:

Addendum No. 1 dated _____ Received _____

Addendum No. 2 dated _____ Received _____

Addendum No. 3 dated _____ Received _____

Addendum No. 4 dated _____ Received _____

Addendum No. 5 dated _____ Received _____

_____ _____

Secretary, *if Bidder is a Corporation Bidder

(Seal)

_____
Authorized Signature

_____
Title

_____
Date

_____

_____
Address

_____
Telephone Number / FAX Number

_____
Email Address for Person Signing Bid

_____
Email Address for Bidder's Primary Contact Person

* Copy of Corporate Resolution and minutes with certificate of officer of Bidder as to authority of signatory to bind Bidder is to be signed and dated no earlier than one week before Bid date, and attached to this document.

End

The Supplemental General Conditions contained herein amend or supplement the General Conditions, Section 00700.

ARTICLE 1 - DEFINITIONS

Add the following definition:

"1.20 Engineer/Architect (E/A): Add the following:

Name: Xiaohong He, PhD., PE, AECOM Technical Services, Inc.

Address: 9400 Amberglen Blvd., Austin, TX 78729"

Add the following definitions:

"1.57 Allowance - Allowance is defined as "a not-to-be-exceeded amount", either individually or in the aggregate, which is established between the Owner and the Contractor as part of its Bid Proposal when the precise scope of a particular line item(s) has not been defined to a level which is adequate for the Contractor to provide a definitive line item pricing for that particular scope of Work. The use of any Allowances by the Contractor will be subject to the Owner's sole approval and it is the Owner's intent to minimize the use of Allowances to the fullest extent possible. For any Allowances which the Owner allows the Contractor to use, the following rules shall apply: (i) Allowances shall cover the cost to the Contractor of the Cost of Work; (ii) Contractor's overhead and profit associated with the stated Allowance shall be included in the Allowance; and (iii) upon completion of the portion of the Work subject to an Allowance, the Contract Amount for that portion of the Work will be adjusted based upon the approved actual cost of the Work, which will not exceed the approved aggregate amount of the Allowances."

ARTICLE 2 - PRELIMINARY MATTERS

2.4 Before Starting Construction:

Delete 2.4.2.6 and replace with the following (changes to the original text are identified by underlining):

".6 a preliminary schedule of values for all of the Work. This schedule of values shall be organized by Subcontractor, with each item of Work to be performed by that Subcontractor broken out under the Subcontractor's name, and shall be subdivided in sufficient detail to serve as the basis for progress payments during construction. At a minimum, each trade shall be split between materials and labor. Prices will include an appropriate amount of overhead and profit applicable to each item of Work."

ARTICLE 5 - BONDS AND INSURANCE

"5.3 Insurance:

5.3.1 CONTRACTOR Provided Insurance

5.3.1.1 General Requirements.

.1 CONTRACTOR shall carry insurance in the types and amounts indicated below for the duration of the Contract, which shall include items owned by OWNER

CITY OF AUSTIN

STATEMENT OF NON-INCLUSION OF ASBESTOS CONTAINING MATERIAL

STATE OF TEXAS
COUNTY OF TRAVIS

ENGINEER/ARCHITECT PRIOR TO DESIGN

"My name is Xiaohong He, hereinafter known as Authorized Representative.

"I am over the age of 18 years and I have never been convicted of a crime. I am the Project Manager of AECOM hereinafter known as ENGINEER/ARCHITECT.

"I am fully competent to make this statement. I have personal knowledge of the facts set forth below and they are all true and correct.

"WHEREAS ENGINEER/ARCHITECT has been selected to provide designs, to prepare the bid and construction documents, and to assist the City of Austin, Texas, hereinafter known as OWNER, during the construction of Ullrich Water Treat Plant Raw Water Hydraulic and Energy Efficiency Improvements - Low Service Pumps Station located at 1000 Forest View Dr., Austin, Texas, hereinafter known as Project, and

"WHEREAS asbestos in a dust form is a recognized health hazard, and
"WHEREAS the OWNER desires not to have any asbestos containing materials used or incorporated into the construction of the Project;
"THEREFORE the ENGINEER/ARCHITECT affirms that to the best of its knowledge and belief:

1. The ENGINEER/ARCHITECT, any person, firm or organization representing or represented by the ENGINEER/ARCHITECT, shall not knowingly specify, request, or approve for use in conjunction with the Project, any asbestos containing materials or any other materials defined as containing asbestos by any laws, rules or regulations promulgated by the United States Government, the State of Texas or any governmental organization or agency operating under the authority of either of those entities.
2. Realizing that there might be materials required in which a satisfactory non-asbestos containing material cannot be obtained, the ENGINEER/ARCHITECT will do the following before specifying any asbestos containing material:
   A. Inform the OWNER's Project Manager for this Project, in writing, of any intent to specify asbestos containing materials.
   B. Receive written approval from the City of Austin Project Manager for the specifying of any asbestos containing materials.
   C. At the completion of the design phase, and before the OWNER receives any bids for this Project, provide to the Project Manager, in writing, the proposed location of any asbestos containing materials, the type of asbestos they contain, and the percent of asbestos by types.
3. The ENGINEER/ARCHITECT states its understanding that if any asbestos containing materials not approved by the OWNER for inclusion into the Project, are determined, as a result of any inspection and sample analysis performed by an individual(s) and/or firm(s) certified and/or licensed to perform such inspection by the United States Government and/or the State of Texas, to have been knowingly specified, requested and/or approved by the ENGINEER/ARCHITECT for inclusion in the Project, the OWNER shall look to the ENGINEER/ARCHITECT for reimbursement of any and all costs incurred in the removal and/or other abatement of said asbestos containing materials.
4. ENGINEER/ARCHITECT further understands that OWNER shall also look to the ENGINEER/ARCHITECT for any and all damages to OWNER which result from the inability of the OWNER to use any portion or all of the Project due to the incorporation of asbestos containing materials that have been knowingly specified, requested and/or approved by the ENGINEER/ARCHITECT.
5. ENGINEER/ARCHITECT further understands that OWNER will pursue reimbursement of any said cost and compensation for any said damages from the ENGINEER/ARCHITECT by any and every means within OWNER's right and power.

Signature of Authorized Representative: _____

STATE OF TEXAS
COUNTY OF TRAVIS

ON June 18th, 2015 personally appeared Xiaohong He and been duly sworn by me, subscribed to the foregoing statement and has stated that the facts stated therein are true and correct.

Notary Public, State of Texas: Jessica L. Ward

Printed Name of Notary: Jessica Ward

My Commission Expires: 5/11/16

JESSICA L WARD
My Commission Expires
May 11, 2016

01605A.00/110392

CITY OF AUSTIN

STATEMENT OF NON-INCLUSION OF ASBESTOS CONTAINING MATERIAL

ENGINEER/ARCHITECT AFTER DESIGN

STATE OF TEXAS
COUNTY OF TRAVIS

"My name is Xiaohong He, hereinafter known as Authorized Representative.

"I am over the age of 18 years and I have never been convicted of a crime. I am the Project Manager of AECOM hereinafter known as ENGINEER/ARCHITECT.

"I am fully competent to make this statement. I have personal knowledge of the facts set forth below and they are all true and correct.

"WHEREAS ENGINEER/ARCHITECT has been selected to provide designs, to prepare the bid and construction documents, and to assist the City of Austin, Texas, hereinafter known as OWNER, during the construction of Ullrich Water Treatment Plant Raw Water Hydraulic and Energy Efficiency Improvements - Low Service Pump Station, located at 1000 Forest View Dr. Austin, Texas, hereinafter known as Project, and

"WHEREAS asbestos in a dust form is a recognized health hazard, and
"WHEREAS the OWNER desires not to have any asbestos containing materials used or incorporated into the construction of the Project;
"THEREFORE the ENGINEER/ARCHITECT affirms that to the best of its knowledge and belief:

1. The ENGINEER/ARCHITECT, any person, firm or organization representing or represented by the ENGINEER/ARCHITECT, shall not knowingly specify, request, or approve for use in conjunction with the Project, any asbestos containing materials or any other materials defined as containing asbestos by any laws, rules or regulations promulgated by the United States Government, the State of Texas or any governmental organization or agency operating under the authority of either of those entities.
2. The only exceptions to the above statement are the following materials that are required because a satisfactory non-asbestos containing material cannot be obtained. The inclusion of these materials has been approved by the OWNER's Project Manager for this Project.

   _____

   _____

   _____

   _____
3. The ENGINEER/ARCHITECT states its understanding that if any asbestos containing materials not approved by the OWNER for inclusion into the Project, are determined, as a result of any inspection and sample analysis performed by an individual(s) and/or firm(s) certified and/or licensed to perform such inspection by the United States Government and/or the State of Texas, to have been knowingly specified, requested and/or approved by the ENGINEER/ARCHITECT for inclusion in the Project, the OWNER shall look to the ENGINEER/ARCHITECT for reimbursement of any and all costs incurred in the removal and/or other abatement of said asbestos containing materials.
4. ENGINEER/ARCHITECT further understands that OWNER shall also look to the ENGINEER/ARCHITECT for any and all damages to OWNER which result from the inability of the OWNER to use any portion or all of the Project due to the incorporation of asbestos containing materials that have been knowingly specified, requested and/or approved by the ENGINEER/ARCHITECT.
5. ENGINEER/ARCHITECT further understands that OWNER will pursue reimbursement of any said cost and compensation for any said damages from the ENGINEER/ARCHITECT by any and every means within OWNER's right and power.

Signature of Authorized Representative: _____

STATE OF TEXAS
COUNTY OF TRAVIS

ON June 18th, 2015 personally appeared Xiaohong He _____ and been duly sworn by me, subscribed to the foregoing statement and has stated that the facts stated therein are true and correct.

Notary Public, State of Texas Jessica L. Ward

Printed Name of Notary Jessica Ward

My Commission Expires: 5/11/16

JESSICA L WARD
My Commission Expires
May 11, 2016

01605B/110392

SPECIAL PROVISION To
Standard Specification 401S
Structural Excavation and Backfill

For this project 401S, "Structural Excavation and Backfill," of the City of Austin Standard Technical Specifications is hereby amended with respect to the clauses cited below. No other clauses or requirements of this Section of the City of Austin Standard Specifications are waived or changed.

1. Delete paragraph 401S.4/A, and replace with the following:

"A. Erosion Control and Tree Protection

Prior to commencement of this work, all required erosion control and tree protection measures indicated on the Drawings shall be in place. The existing utilities shall be located and protected as specified in the Standard Contract Documents, Section 00700, "General Conditions" and/or indicated on the Drawings. A permit shall be required when utility adjustments are to be made in preparation for construction in the right-of-way, as specified in Section 5.2.0 of the City of Austin Utilities Criteria Manual.

Areas within the construction limits indicated on the Drawings shall be cleared of all trees, stumps, brush, etc. in accordance with the Contract requirements, except trees or shrubs scheduled for preservation which shall be carefully trimmed as directed by the Engineer or designated representative, in accordance with Standard Specification Item No. 610S, " Preservation of Trees and Other Vegetation" and shall be protected from scarring, barking or other injuries during construction operations. All exposed cuts over 2 inches (50 millimeters) in diameter, exposed ends of pruned limbs or scarred bark shall be treated with an approved asphalt material within 24 hours of the pruning or injury."

2. Delete paragraph 401S.4/B/1/ Excavation, and replace with the following:

"1. Excavation shall be done in accordance with the lines and depths indicated on the Drawings or as established by the Engineer or designated representative. Unless otherwise indicated on the Drawings or permitted by the Engineer or designated representative no excavation shall be made outside a vertical plane 5 feet (0.9 meter) from the footing lines and parallel thereto.

When structures are installed in streets, highways or other paved areas, the pavement and base shall be cut to neat lines. After completion of the excavation and backfilling, the pavement structure shall be restored to the satisfaction of the Engineer or designated representative."

3. Delete paragraph 401S.4/B/3, and replace with the following:

"3. Excavation shall conform to elevations indicated. Where necessary to increase or decrease footing depths, obtain prior approval from the Engineer, providing information in the form of drawings or details of the proposed changes prior to initiating."

4. Delete paragraph 401S.4/B/5.

5. Delete paragraph 401S.4/B/6, and replace with the following.

   "6. Processing of excavated material will not be permitted on job site. Contractor to use excavation techniques to generate excavated spoils that can be trucked offsite. Excavated material to be disposed of in accordance with the contract requirements. Excess materials shall be disposed of offsite at no additional cost to the OWNER."

6. Delete paragraph 401S.4/B/9.

7. Delete paragraph 401S.5.

8. Delete the 4th paragraph in its entirety in Paragraph 401S.7, and replace with the following.

   "When the bottom of an excavation cannot be de-watered to the point that the subgrade is free of mud or it is difficult to keep the reinforcing steel clean a stabilizing material (e.g. flexible base, cement-stabilized-backfill or lean concrete) shall be placed in the bottom of the excavation. When a lean concrete is used, the concrete shall conform to Section 403S, "Concrete Class B", and be placed to a minimum depth of 2 inches (50 mm). Stabilizing material that is placed for the convenience of the Contractor will be at the Contractor's own expense."

9. Delete paragraph 401S.8/A and replace with the following:

   The backfill should be placed in horizontal loose lifts of not more than 8 inches in thickness. Each lift should be compacted to a minimum of 95 percent of the maximum dry density based on TxDOT method Tex-113-E or Tex-114-E. The moisture content should be within 3 percentage points of the optimum moisture content at the time of compaction.

   Over-compaction of the backfill should be avoided to prevent an increase of lateral earth pressures on the walls. Compaction conducted within four feet of the back of the walls should be performed with a manually propelled compactor (weighing less than 500 pounds) to reduce lateral pressures applied to the wall. Fill in this zone should be placed in six-inch loose lifts and compacted as described above.

10. Delete paragraph 401S.8/B/Pipe Culverts.

11. Delete paragraph 401S.8/C/Cement Stabilized Backfill.

End

C. Storage:
1. Store in an area that will avoid damage due to traffic.
2. Exposure to normal weather conditions is acceptable; however, avoid contact with other materials.
3. Store at job site on 4" × 4" blocking at 6' spacing. Piping may be stacked a maximum of three rows high as long as 4" high spacers are used on 6' centers.
4. Keep interior of piping free of all foreign matter.

1.09 - 1.11 (NOT USED)

PART 2 PRODUCTS

2.01 MANUFACTURER(S)

1. American Cast Iron Pipe Co.
2. U.S. Pipe & Foundry
3. Tyler Pipe/Union Foundry
4. Griffin Pipe Products Co. (Pipe only)
5. McWane Incorporated
6. C-1 Foundry (China), WFD, EC, SC, JX, XD, HD, EC Foundries (India), HJ Foundries (Korea), Star Pipe Products (Fittings Only)
7. Metalfit (Mexico) (Fittings only, Flanged)
8. Shanxi Yuansheng (China), Accu Cast (Fittings only, Flanged)
9. Calcutta Springs Foundry (India), XYF Foundry (China), Sigma Corporation (Fittings only, Flanged)

2.02 MATERIALS AND/OR EQUIPMENT

A. General: Fabrication dimensions and accuracy of fabrication are responsibility of CONTRACTOR.

B. Pipe:
1. Ductile Iron: Per AWWA C151.
2. Thickness Class:
   a. Aboveground Lines: As shown on PLANS and minimum for flanged pipe per AWWA C115.
   b. Underground Lines: As shown on PLANS, but not less than that indicated within AWWA C150 for internal pressure and depth shown on PLANS.

C. Fittings, Flanges, and Joint Material:
1. Fittings: Per AWWA C110 and C111.
2. Threaded-On Flanges: Per AWWA C115. Use ductile flanges on ductile fittings and cast iron flanges on cast iron fittings.
3. Nonflanged Joint Material
   a. Rubber Gaskets for Water and Sewage Service: Per AWWA C111.
   b. Rubber Gaskets for Diffused Air Systems (10 psi and 210°F Service): EPDM.

D. Restrained Joints:
1. Restrained Joint Pipe:
   a. Pipes 16" and less: Joints to be restrained by Mega-Lug, by EBAA Iron, Inc. or equal by Ford Meter Box Co. Provide Mega-Lug Series 1100 and mechanical joint pipe and fittings, or equal by Ford Meter Box Co. Provide Mega-Lug Series 1700, or equal by Ford Meter Box Co. for push on joints.

SECTION 15117

REHABILITATION OF PUMP CONTROL VALVES

PART 1 GENERAL

1.01 SUMMARY

A. Remove, disassemble, inspect, rehabilitate and re-install existing pump control valves in Ullrich Low Service Pump Station as shown on PLANs and as specified herein.

B. This section defines the minimum requirements for the rehabilitation of existing pump control valves as shown on PLANS and as specified herein and as shown on PLANs.

C. CONTRACTOR is responsible for providing complete working pump control valves. It is CONTRACTOR's responsibility to determine and develop additional scope and procedures that are required to achieve complete working status for each valve as specified herein. All additional scope and procedures beyond those specified herein shall be submitted for OWNER's review and approval, prior to being initiated.

1.02 RELATED REQUIREMENTS:

A. Other related work as called for on PLANS or specified elsewhere in this or other TECHNICAL SPECIFICATION Sections.

1.03 REFERENCES

The publications listed below form a part of this Specification to the extent referenced. The publications are referred to in the text by basic designations only.

AMERICAN WATER WORKS ASSOCIATION (AWWA)

AWWA C507 Ball Valves, 6 Inch through 48 Inch

1.04 DEFINITIONS

"Valve Manufacturer", "Valve Repairer" and "Valve Manufacturer/Repairer" are used interchangeably in this specification section.

1.05 (NOT USED)

1.06 SUBMITTALS

A. Submit the following information as specified in Sections 01300 "Submittals" and Specification Section 15101 "General Requirements of Valves, Manual and Multi-Turn Operators":

1. Product data.
   a. Size of valve and pressure rating.
   b. Drawings and technical data of replacement parts, including parts list with materials of construction and metallurgy.
   c. Description of rehabilitation procedures, sequence of construction and test plan.
   d. Installation instructions and drawings.
2. Certified Field Inspection/Test Report for each valve (prior to and after rehabilitation). The report shall include but not limited to:
   a. Manufacturer and model number of each valve to be rehabilitated;

b. Evaluation, diagnosis and analysis of conditions of each valve prior to rehabilitation.
c. Photos illustrating existing problems and issues.
d. Rehabilitation methodology and procedures.
e. Prior notification of field tests after rehabilitation shall be submitted to OWNER at least two weeks before the tests.

3. Manufacturer's Certification and Installation Report. The report shall include but not limited to:
   a. Furnish to ENGINEER copies of certified report prepared by manufacturer's technical representative certifying satisfactory installation, operation and in service placement of units.
   b. Certification that the rehabilitated valve is in full compliance with AWWA C507 standard.
   c. Recommended valve O&M requirements.

1.07 QUALITY ASSURANCE

A. System Coordination:
   1. CONTRACTOR retains overall responsibility to properly install, adjust, test, and place in operation the pump control valves.
   2. The repair of all pump control valves under this Specification shall be by a single manufacturer/repairer. The valve manufacturer/repairer shall furnish the valves as a complete and integral package to insure proper coordination, compatibility, and operation of the system.
   3. CONTRACTOR to coordinate pump control valve tests with operation of associated low service pumps.

B. Valve Manufacturer/Repairer's Qualifications

   1. The rehabilitation of pump discharge control valves shall be performed by a valve manufacturer who has been manufacturing similar valve equipment meeting and exceeding AWWA C507 Ball Valves standards for pump control applications for a period of at least ten years. Upon the request of the Engineer, the valve manufacturer shall provide a list of installations involving equipment of similar size and application.

C. Valve Manufacturer/Repairer's representative
   1. The qualified manufacturer/repairer's service technician shall:
      a. Assist in the removal, inspection, repair and re-installation of the equipment;
      b. Check the installation before the equipment is placed into operation;
      c. Assist in the performance of field tests;
      d. Train the plant operations and maintenance staff in the care, operation and maintenance of equipment.

   2. Unless otherwise authorized by the ENGINEER, the manufacturer/repairer's technician shall be a direct employee of the equipment manufacturer/repairer or a factory/shop trained technician, with at least five (5) years of experience in the installation and testing of the valve type provided under this Specification.

D. Valve shall conform to the requirements of AWWA C507 after rehabilitation.

1.08 PROJECT CONDITIONS

A. The Ullrich Low Service Pump Station consists of six pump control valves. Each valve is installed on the discharge side of a vertical turbine pump that delivers raw water from

Lake Austin to Ullrich Water Treatment Plant. The valves are located in the basement level of the Low Service Pump Station, approximately 12 ft above floor level. The access to the valves is limited due to the configurations of piping and building. No permanent crane is available in the basement level. The following four (4) pump control valves are to be rehabilitated:

UL-LSPS-BV-001 (36")

UL-LSPS-BV-004 (36")

UL-LSPS-BV-005 (30")

UL-LSPS-BV-006 (30")

B. It is believed that at least one of the pump control valves is leaking to the exterior of the valve. In addition, it is suspected that multiple valves have leakage through the interior of valves (back to the pump side).

C. The existing pump control valves are believed to be GA Industries XR202-UM Rotary Ball Valves. CONTRACTOR shall confirm valve models.

1.09 SPARE PARTS

A. Provide spare parts that are identical to and interchangeable with the installed parts. Provide one set of the following spare parts:
1. Static seal for cover plate of valve.
2. Seat retainer seal for valve.
3. Any other manufacturer's recommended spare parts.
4. All spare parts to be in suitable packaging and labeled as to the contents.

PART 2 PRODUCTS

2.01 MANUFACTURER(S)

A. The rehabilitation of pump discharge control valves shall be performed by:
1. GA Industries, Inc.
2. No equal.

2.02 MATERIALS AND/OR EQUIPMENT

A. All replacement parts and repair procedures shall be fully compatible with existing pump control valves in materials and functions, and exceeding minimum design requirements of AWWA standard C507. All replacement parts shall be designed for a hydrostatic operating pressure of 120 psi and estimated surge pressure of 225 psi.

B. It is anticipated that, at a minimum, the following parts of each specified valve will need to be replaced with materials of construction as specified below:
1. Seat retainer bushing: lead free bronze
2. Seat retainer screws head cap screw with locking Nylon insert
3. Seat follower screws stainless steel head cap screw
4. Renewable seat: ultra high molecular weight polyethylene (UHMWPE)
5. Seat retainer seal: Buna-N
6. Backup Ring: Buna-N
7. Access cover static seal

2.03 – 2.04 (NOT USED)

PART 3 EXECUTION

3.01 PREPARATION

A. CONTRACTOR shall coordinate with OWNER and ENGINEER on scheduling of all removal, inspection, test, repair and installation work.

B. Take all necessary measurements in the field to determine the exact dimensions for all work and the required sizes of all equipment under this contract. All pertinent data and dimensions shall be verified.

3.02 – 3.03 (NOT USED)

3.04 REPAIR/RESTORATION

A. Valve manufacturer/repairer's qualified representative shall be present and assist all field work involving removal, inspection, rehabilitation, re-installation and testing of pump control valves.

B. Contractor shall furnish all tools and equipment that are required for the work. Use of OWNER's equipment such as air compressor is subject to the condition and availability of the equipment.

C. All rehabilitation work and procedure shall be in accordance with AWWA C507 standard to the maximum extent possible.

D. The rehabilitation work shall consist of the following general procedure:

1. Isolate and remove each valve from the pump discharge pipe, secure the openings of the discharge piping, ship the valve to Valve Manufacturer/Repairer's shop for inspection and rehabilitation.
2. Inspect and refurbish seat retainer.
3. Replace existing rubber backing ring behind the seat retainer.
4. Blast and coat seat retainer per Valve Manufacturer/repairer's recommendation before the new seat is installed.
5. Clean both bronze bushing surfaces on the seat retainer and the rotor.
6. Replace the rubber seat with ultra high molecular weight polyethylene (UHMWPE) seat.
7. Re-install refurbished seat retainer.
8. Test rehabilitated pump control valves per AWWA C507.
9. Deliver the rehabilitated pump control valve to job site and re-install.
10. Disposal: All materials not designated for reuse or salvage to be legally disposed of off-site by the CONTRACTOR.

3.05 DELIVERY AND STORAGE

A. Prepare valves and appurtenances for shipment according to manufacturer's recommendation.

B. Once delivered to the job site, Contractor shall store and handle all valves according to the manufacturer's recommendation and shall keep them in area from weather and moisture. Materials shall not be stored directly on ground and shall be kept in safe place to prevent damage to interior or exterior surfaces.

3.06 ERECTION/INSTALLATION/APPLICATION AND/OR CONSTRUCTION

A. Installation shall be in strict accordance with the manufacturer's instructions and recommendations in the locations shown on the Plans and shall:
   1. Install for maximum operator access and convenience.
   2. Install equipment in accordance with approved submittals.
   3. Align valve and adjacent piping and provide adequate supports.
   4. Pressure test with piping system.
   5. Operate satisfactorily through at least three cycles.

B. The manufacturer/repairer shall be present during the first installation of the items to be supplied and inspect the final installation and make necessary adjustment of the equipment and certify that the installation of the equipment has been performed to their satisfaction. Written certification shall be required to be submitted prior to operational test.

3.07 FIELD QUALITY CONTROL

A. Field Testing: In the presence of the Engineer, such tests as necessary to indicate and demonstrate that the pump control valve system is correctly installed. Contractor to coordinate testing with both valve manufacturer/repair representative and pump manufacturer/repair representative. A 2-hour operational testing period of the system is required before acceptance. If the pump control valve system does not meet the specified requirements, corrective measures shall be taken to satisfy the conditions specified at no additional cost to the Owner. All test procedures shall be in accordance with functional requirement specified above, and certified results of tests shall be submitted. The Contractor shall provide all temporary gauges and testing tools, shall make necessary tapped holes in the pipes, and install all temporary piping and wiring required for the field acceptance tests. Written test procedures shall be submitted to the Engineer for approval 30 days prior to testing.

B. If required, take corrective action and the units shall be retested to ensure full compliance with this Section. All costs associated with the field tests or any required corrective action shall be borne by the Contractor.

C. Valve Repairer's Field Services: Furnish services of qualified factory-trained technical representative to provide a minimum of four (4) visits to check installation and assist CONTRACTOR in making adjustments to ensure proper settings on the equipment.

D. Valve repairer's authorized qualified representative to provide a minimum of one eight-hour working day for assistance during system functional and operational tests and to train Owner's personnel in the operation, maintenance, and troubleshooting of the equipment provided.

E. Coordinate with other work and run operational tests. Tests to be witnessed by ENGINEER and manufacturer's technical representative.

F. A certificate from the equipment manufacturer shall be submitted stating that the installation of the equipment is satisfactory, that the equipment is ready for operation, and that the operating personnel have been suitably instructed in the operation, lubrication and care of each unit.

3.08 ADJUSTING

A. Manufacturer's technical representative to inspect, check, assist in making adjustments if necessary, and approve for placing in operation. Contractor to coordinate with valve manufacturer when valve adjustments are required.

3.09 –3.10 (NOT USED)

3.11 MEASUREMENT AND PAYMENT

Unless otherwise indicated, no separate measurement or payment for work performed under this Section. Include cost of same in Contract price bid for work of which this is a component part.

END OF SECTION