ADDENDUM No. No. 2

Date July 1, 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

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Delete this section in its entirety and replace with the attached revised "Table of Contents".

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 00830BC – WAGE RATES BUILDING CONSTRUCTION TRADES

Delete this section in its entirety and replace with the attached revised Section 00830BC – Wage Rates Building Construction Trades.

SECTION 01030 - ALTERNATES

Insert the attached new section, Section 01030 – Alternates.

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Delete this section in its entirety and replace with the attached revised "Table of Contents".

SECTION 11212 – REHABILITATION OF STARTUP OF VERTICAL TURBINE PUMPS

At the end of Paragraph 3.03/A/2, insert the following sentence:

"The OWNER will provide the source of power to the space heater of the stored motor."

SECTION 15101 – GENERAL REQUIREMENTS FOR VALVES, MANUAL AND MULTI-TURN OPERATORS

Delete Page 13 of 13 and replace with the attached revised Page 13 of 13.

SECTION 15119 – AIR AND VACUUM RELIEF VALVES

Revise Paragraph 2.04/C/1 with the following paragraph:

"1. The valve shall be of compact single chamber design with multiple solid cylindrical HDPE control floats housed in a tubular 304 stainless steel body. The top and bottom of the valve body shall be covered with 304 stainless steel ends/flanges, secured by means of stainless steel tie rods."

SECTION 15117A – REHABILITATION OF PUMP CONTROL VALVES IN PLACE

Insert the attached new section, Section 15117A – Rehabilitation of Pump Control Valves in Place.

B. Drawing Revisions:

DRAWING E-E-12

Revise Keynote 11 on Drawing E-E-12 to read as follows:

"DISCONNECT AND REMOVE EXISTING DIFFERENTIAL CURRENT TRANSFORMERS, LIGHTNING ARRESTORS, AND SURGE CAPACITORS DEDICATED FOR PUMP "LSPS-LWP-005". THESE ITEMS SHALL BE REUSED DURING RENOVATION ACTIVITIES. DISCONNECT AND REMOVE THE EXISTING HIGH VOLTAGE TERMINAL ENCLOSURE WHICH SHALL NOT BE RE-USED. THE EXISTING PUMP/MOTOR AND RELATED MACHINE MONITORING DEVICES SHALL REMAIN AND BE REUSED DURING RENOVATION ACTIVITIES. REFER TO RENOVATION LOW SERVICE PUMP CONTROL WIRING SCHEMATICS AND TO THE RENOVATION DETAILED ONE-LINE DIAGRAM ON DRAWING NO. [E-E-15] FOR ADDITIONAL INFORMATION."

DRAWING E-E-13

Revise Keynote 11 on Drawing E-E-13 to read as follows:

"DISCONNECT AND REMOVE EXISTING DIFFERENTIAL CURRENT TRANSFORMERS, LIGHTNING ARRESTORS, AND SURGE CAPACITORS DEDICATED FOR PUMP "LSPS-LWP-004" AND "LSPS-LWP-006", AS APPLICABLE. THESE ITEMS SHALL BE REUSED DURING RENOVATION ACTIVITIES. DISCONNECT AND REMOVE THE EXISTING HIGH VOLTAGE TERMINAL ENCLOSURE WHICH SHALL NOT BE RE-USED. THE EXISTING PUMP/MOTOR AND RELATED MACHINE MONITORING DEVICES SHALL REMAIN AND BE REUSED DURING RENOVATION ACTIVITIES. REFER TO RENOVATION LOW SERVICE PUMP CONTROL WIRING SCHEMATICS AND TO THE RENOVATION DETAILED ONE-LINE DIAGRAM ON DRAWING NO. [E-E-16] FOR ADDITIONAL INFORMATION."

This addendum consists of 23 page(s)/sheet(s).

Connie Smith Digitally signed by Connie Smith
DN: cn=Connie Smith, o=City of Austin, ou=public works, email=connie.smith@austintexas.gov, c=US
Date: 2015.07.01 13:49:27 -05'00'

Approved by OWNER

7/1/2015

Approved by ENGINEER/ARCHITECT

STATE OF TEXAS
XIAOHONG HE
96775
LICENSED
PROFESSIONAL ENGINEER

END

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NOT USED

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VOL. 3 10/09/00 **MBE/WBE PROCUREMENT PROGRAM PACKAGE**

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 (NOT including cost to perform work defined in Section 15117A – Rehabilitation of Pump Control Valves in Place)	$_____

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

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

ALTERNATE ITEM NO. 1: Subtract the cost to perform rehabilitation of pump control valves in accordance with Section 15117, from the cost to perform rehabilitation of pump control valves in accordance with Section 15117A, for a net difference _____ = ($ _____)

TOTAL BID (Base Bid Plus Alternates)..... = $ _____

Notes:

1. For a more detailed explanation of Bid allowances, see Section 01020.
2. For a more detailed explanation of Bid alternates, see Section 01030.

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

PREVAILING WAGE RATE DETERMINATION

BUILDING CONSTRUCTION TYPE

COUNTY NAME : TRAVIS

Wages based on DOL General Decision: TX150323 06/12/2015 TX323

CLASSIFICATION	RATE	FRINGES	TOTAL WAGE
Asbestos Worker/Heat & Frost Insulator (Duct, Pipe, and Mechanical System Insulation)	$ 21.17	$ 8.77	$ 29.94
Boilermaker	$ 23.14	$ 21.55	$ 44.69
Bricklayer	$ 20.07	$ -	$ 20.07
Carpenter	$ 20.75	$ 7.30	$ 28.05
Carpenter (Acoustical Ceiling Installation only)	$ 14.00	$ -	$ 14.00
Carpenter (Form Work Only)	$ 15.62	$ 0.05	$ 15.67
Cement Mason/Concrete Finisher	$ 15.71	$ -	$ 15.71
Drywall Finisher/Taper	$ 17.06	$ 4.43	$ 21.49
Drywall Hanger and Metal Stud Installer	$ 17.47	$ 3.45	$ 20.92
Electrical Installer (Sound and Communication Systems, Excluding Wiring)	$ 18.00	$ 2.30	$ 20.30
Electrician (Excludes Installation of Sound and Communication Systems)	$ 27.15	$ 7.88	$ 35.03
Elevator Mechanic <5 years experience	$ 37.09	$ 30.62	$ 67.71
Elevator Mechanic >5 years experience	$ 37.09	$ 31.36	$ 68.45
Floor Layer (Carpet)	$ 21.88	$ -	$ 21.88
Glazier	$ 12.83	$ -	$ 12.83
HVAC Mechanic (HVAC Unit Installation Only)	$ 23.78	$ 6.89	$ 30.67
Ironworker, Ornamental	$ 22.02	$ 6.35	$ 28.37
Ironworker, Reinforcing	$ 12.27	$ -	$ 12.27
Ironworker, Structural	$ 20.73	$ 5.24	$ 25.97
*Lead Paint or Asbestos Abatement Worker	$ 12.27	$ -	$ 12.27
Laborer, Common or General	$ 11.44	$ -	$ 11.44
Laborer, Mason Tender - Brick	$ 12.22	$ -	$ 12.22
Laborer, Mason Tender - Cement/Concrete	$ 11.85	$ -	$ 11.85
Laborer, Pipelayer	$ 12.45	$ -	$ 12.45
Laborer, Roof Tearoff	$ 11.28	$ -	$ 11.28
Operator, Backhoe/Excavator/Trackhoe	$ 19.43	$ 3.49	$ 22.92
Operator, Bobcat/Skid Steer/Skid Loader	$ 13.00	$ -	$ 13.00
Operator, Bulldozer	$ 14.00	$ -	$ 14.00
Operator, Crane	$ 34.85	$ 9.85	$ 44.70
Operator, Drill	$ 14.50	$ -	$ 14.50
Operator, Forklift	$ 16.64	$ 6.26	$ 22.90
Operator, Grader/Blade	$ 19.30	$ -	$ 19.30
Operator, Loader	$ 14.00	$ -	$ 14.00

Operator, Mechanic	$ 18.75	$ 5.12	$ 23.87
Operator, Paver (Asphalt, Aggregate, and Concrete)	$ 16.03	$ -	$ 16.03
Operator, Roller	$ 11.25	$ -	$ 11.25
Painter (Brush, Roller, and Spray, Excludes Drywall Finishing/Taping)	$ 18.76	$ 6.35	$ 25.11
Pipefitter (Including HVAC Pipe Installation)	$ 27.03	$ 10.40	$ 37.43
Plumber, Excludes HVAC Pipe Installation	$ 23.57	$ 6.37	$ 29.94
Roofer	$ 12.00	$ -	$ 12.00
*Roofer, Metal	$ 14.05	$ -	$ 14.05
Sheet Metal Worker (Including HVAC Duct Installation)	$ 24.38	$ 13.05	$ 37.43
Sprinkler Fitter (Fire Sprinklers)	$ 26.36	$ 16.52	$ 42.88
Tile Finisher	$ 11.32	$ -	$ 11.32
Tile Setter	$ 16.35	$ -	$ 16.35
Truck Driver, Dump Truck	$ 12.39	$ 1.18	$ 13.57
Truck Driver, Flatbed Truck	$ 19.65	$ 8.57	$ 28.22
Truck Driver, Semi-Trailer Truck	$ 12.50	$ -	$ 12.50
Truck Driver, Water Truck	$ 12.00	$ 4.11	$ 16.11
Waterproofer	$ 16.30	$ 0.06	$ 16.36

http://www.wdol.gov/wdol/scafiles/davisbacon/tx.html

*** See Page 2 for Additional Wage Information**

Note: *Lead Paint & Asbestos Abatement and Roofer, Metal Classifications have been added to this Prevailing Wage Rate Determination pursuant to a City of Austin Prevailing Wage Survey (trades absent from DOL).

The Wage Compliance information detailed below was excerpted from General Decision TX070018 or other DOL sources.

1. **Additional Trade information:**

   Electricians** - Including low voltage wiring for computers, fire/smoke alarms and telephones.

   Elevator Mechanics*** - also must be paid for 7 holidays - New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Veterans Day.

   Welders - Receive rate prescribed for craft performing operation to which welding is incidental.

   Unlisted classifications needed for work not included within the scope of the classifications listed may be added upon the advance approval of City of Austin Contract Administration. CONTRACTOR shall submit to City of Austin Contract Administration for review the classification, a bona fide definition of work to be performed and a proposed wage with sample payrolls conforming to area practice **prior** to the start of the job for that type of work.

2. **Wages**

   The Total Wage may be met by any combination of cash wages and credible "bona fide" fringe benefits by the employer. For overtime, the basic hourly rate listed in the contract wage determination must be used in computing pay obligations.

3. **Crediting fringe benefit contributions to meet DBA/DBRA and City of Austin requirements:**

   The Davis-Bacon Act (and 29 CFR 5.23), list fringe benefits to be considered. Examples are:

   > Life Insurance
   > Health Insurance
   > Pension
   > Vacation
   > Holidays
   > Sick Leave

   Note: The use of a truck is not a fringe benefit; a Thanksgiving turkey or Christmas bonus is not a fringe benefit. No credit may be taken for any benefit required by federal, state, or local law such as: workers compensation, unemployment compensation; or social security contributions.

Contributions to fringe benefit plans must be made regularly, e.g. daily, weekly, etc. They must be more frequent than quarterly. (see 29 CFR 5.5 (a)(1)(I)) A periodic bonus may not be counted as a fringe benefit.

4. Annualization of Benefit Costs

If a firm provides an electrician with $200 per month medical insurance, to calculate allowable fringe benefit credit contributions per hour, the formula ([$200 x 12 months] divided by 2080 hours = $1.15 per hour) should be used.

5. Proper Designation of Trade

A work classification on the wage decision for each worker must be made based on the actual type of work he/she performed and each worker must be paid no less than the wage rate on the wage decision for that classification **regardless** of his or her level of skill.

6. Split Classification

If a firm has employees that perform work in more than one classification, it can pay the wage rates specified for each classification ONLY if it maintains accurate time records showing the amount of time spent in each classification. If accurate time records are not maintained, these employees must be paid the highest wage rate of all the classifications of work performed by each worker. Accurate time records tracking how many hours a worker performed the work of one trade and then switched to another trade must be accounted for on a daily basis and reflected on Employer Certified Payroll accordingly.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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PART 1 GENERAL

1.01 SUMMARY

A. This document is a supplement to Section 00300L, "Bid Form". It defines the limits of the alternates listed in Section 00300L. It establishes the modifications required to the PLANS in the event one or more of the alternate bid items are included in the accepted bid.

B. The PLANS and Specifications define the proposed construction for the Ullrich WTP RWHEEl Low Service Pump Station project. The work under Base Bid Item No. 1 shall not include any of the alternate bid items, as further defined in the following paragraphs.

1.02 LIMITS OF ALTENATE BID ITEMS

A. **Alternate Item No. 1:** Includes performing Rehabilitation of Pump Control Valves (as shown on PLANS) in Place as defined in Specification Section 15117A., in lieu of rehabilitation of the aforementioned valves in valve manufacturer's factory (shop) as defined in Specification Section 15117.

1.03 SELECTION OF ALTERNATES

A. The LOW BIDDER will be selected by the TOTAL BID (BASE BID PLUS ALTERNATES) amount.

B. Based on technical aspects independent of this contract, the OWNER will construct the BASE BID PLUS SELECTED ALTERNATES.

END

D. Provide a minimum of 1/2 person-day and 1 trip for OWNER training at OWNER's request, as specified in Section 01445, "Manufacturers Field Services".

E. The person days and trips provided by the manufacturer shall be provided for each valve type and operator that requires routine maintenance beyond scheduled exercising of the unit.

3.04 - 3.09 (NOT USED)

3.10 SCHEDULES

A. Requirements relative to this Section are shown on Valve Schedule located in the PLANS.

B. Geared operators: Provide geared operators for following valves:
1. Manual Valves, multi turn, larger than 6 inches, nominal size, on liquid service.

C. Handwheel operators: Provide handwheel operators for valves mounted 6 feet or less above floors.

D. Chain wheel operators: Provide chain wheel operators for valves mounted more than 6 feet to center line above floors.

3.11 MEASUREMENT AND PAYMENT

Unless otherwise stated, 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.

ATTACHMENT "A"

1. **Design criteria for actuators for the following existing pump control valves:**
UL-LSPS-BV-001
UL-LSPS-BV-004
UL-LSPS-BV-005

Min/Max Normal Inlet Press: ____107/169__ PSI (Pressure at the valve inlet when the pump is on and the valve is open.)

Pump Shut-Off Pressure: __169____ PSI (Pressure at the valve inlet when the pump is on and the valve is closed.)

Pump Suction Press, If Any: __0____ PSI (Pressure at the valve inlet with the pump is off and the valve closed.)

Outlet Static System Press: ___95___ PSI (Pressure at the valve outlet with the pumps is off and the valve closed.)

Voltage / Cycles: 480V / 3PH / 60HZ

Normal Opening / Closing Speed: ___180___ / ___180___ Seconds

END OF SECTION

SECTION 15117A

REHABILITATION OF PUMP CONTROL VALVES IN PLACE

PART 1 GENERAL

1.01 SUMMARY

A. This section defines part of the requirements for Alternate Item No. 1. If the OWNER elects to have the existing pump control valves, as shown on PLANS and as specified herein, rehabilitated in place at the Ullrich Water Treatment Plant Low Service Pump Station, in lieu of at the valve manufacturer's factory or shop, this section replaces Section 15117, Rehabilitation of Pump Control Valves.

B. Disassemble, inspect and rehabilitate existing pump control valves in Ullrich Low Service Pump Station as shown on PLANs and as specified herein.

C. This section defines the minimum requirements for the rehabilitation of existing pump control valves as shown on PLANs.

D. 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 – 1.05 (NOT USED)

1.06 SUBMITTALS

A. Submit the following information as specified in Sections 01300 "Submittals" and Specification Section 15110 "Valves":
   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 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. 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 CONTRACTOR shall provide the services of a qualified manufacturer/repairer's service technician to:
   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.

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.

B. It was 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) (NOT USED)

2.02 MATERIALS AND/OR EQUIPMENT

A. All replacement parts 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 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. Remove bolts securing the cover plate of each valve, and lower the cover plate to a secure place.
2. Confirm the seat retainer is not seized onto the rotor. Remove seat retainer.
3. The seat retainer, upon removal, shall be shipped to Valve Manufacturer's shop for thorough inspection and refurbishing.
4. Replace existing rubber backing ring behind the seat retainer.
5. Blast and coat seat retainer per Valve Manufacturer's recommendation before the new seat is installed.
6. Clean both bronze bushing surfaces on the seat retainer and the rotor.
7. Replace the rubber seat with ultra high molecular weight polyethylene (UHMWPE) seat.
8. Re-install refurbished seat retainer.
9. Re-install cover plate.
10. Test rehabilitated pump control valves.
11. Disposal: All materials not designated for reuse or salvage to be legally disposed of off-site by the CONTRACTOR.

3.05 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 representative and pump manufacturer representative. Written test procedures shall be submitted to the Engineer for approval 14 days prior to testing.

B. Seat Test: Conduct leakage check following procedures that are similar in AWWA C507 standard. The valve to be opened to the fully opened position while the associated low service pump is operating, and the test shall be repeated three times.

C. Leakage Test: After the third seat test, the valve shall be pressurized as in the previous three tests, and the leakage shall be measured for 10 minutes and recorded at the design pressure. The leakage test the closed seat being tested, at design pressure, shall not exceed 18.0 fl oz/h/in (21.6 mL/h/mm) of nominal port diameter. At pressures less than the design pressure, higher recorded leakage rates shall be acceptable to the OWNER.

D. A ¾ inch tap hole shall be drilled at the bottom of the discharge pipe, immediately upstream of the pump control valve, in order to check the leakage of the valve. The tap hole shall be permanently plugged once the leakage test is complete. Alternatively, CONTRACTOR shall coordinate with work for rehabilitation of low service pumps, such that leakage through the pump control valves can be visualized while the upstream low service pump is taken out. 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.

E. Manufacturer's Field Services: Furnish services of qualified factory-trained technical representative to provide a minimum of one eight-hour working day for each valve to check installation and assist CONTRACTOR in making adjustments to ensure proper settings on the equipment.

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

G. 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.

3.06 –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