Addendum #1

Request for Competitive Sealed Proposals (CSP) No. 18005 – Gas Shutoff Valve Replacement/Installation at La Armada I & II is hereby amended as follows:

1) There have been several questions about the size of gas lines and gas valves associated with this project. Additionally, some potential bidders did not receive the original Scope of Work. Attached is a revised Scope of Work dated July 4, 2018 which supersedes the original Scope of Work.

2) Revised drawings are being prepared and will be available on July 6, 2018 for pick up. Please contact Rose Mary Khosrowalafi at rosemary.k@hacc.org, (361) 889-3373 or Brian Bray at brian.bray@hacc.org, (361) 889-3372 to schedule an appointment to pick up new drawings.

All other terms and conditions of the Request for Competitive Sealed Proposals remains unchanged. **The signed addendum must be returned with your CSP submission.**

Acknowledged and accepted:

Company: _____

Representative Name: _____

Signature: _____

Date: _____

Corpus Christi HOUSING AUTHORITY

Addendum #1

Corpus Christi Housing Authority

Capital Fund Department

Natural Gas Shut Off Valves for La Armada I and II Revised

Revised July 4, 2018

Scope of Work :

The La Armada I and II Natural Gas Line Layout connects a loop system from Ayers at East Drive to Port at Southgate around to Painter Street at Port and connecting Painter to Ayers Street. La Armada I, built during 1941, adjoining Ayers Street **with** 250 units/54 apartment buildings, two (2) laundry buildings, and a Central Office at 3701 Ayers. Adjoining La Armada I at Rojo Street is La Armada II , also built during 1941, with 400 units/73 apartment buildings along Port Avenue, and a building at Rojo serving both La Armada I and II Maintenance Departments.

The **six** (**6**") inch diameter perimeter main line system is made up of wrapped steel **with 90 degree 2"** branch lines going **to 90 degree 1" lines** connecting to building regulators which serve gas for each apartment unit. In case of leaks, gas cut off control valve**s are** located on each gas riser/regulator**.** To regulate gas line layout of gas flow to the various buildings, gate valves are located at various line intersections (**Check Layout Plan)**. Existing ball valves are mostly along intersecting lines at City main line along Ayers Street, in front of Housing Authority property, and connected to primary City Gas Company fenced supply unit at East Drive/CCHA and Ayers intersection. The rate of pressure from primary City gas supply unit feeding La Armada I and II is sixteen (16 psi) **pounds/sq. inch**. Gas distribution site plans are provided with the complete layout system exhibiting City Gas Control Unit at East and Ayers with perimeter **6**" wrapped line connecting CCHA La Armada I and II. The overall system, with exception to Ayers main line, is maintained by the La Armada I and II Maintenance Department and contracted private Utility Contractors.

Although gas cut off valves are located at each building gas riser per unit, individual cut off ball valves per line layout are not either working nor are they in proper location to adequately service the 127 apartment buildings with 650 apartment units per each of the buildings. The means to serve the various buildings, including Central Office, 2 laundry's, 1 Maintenance building is not to shut off the whole gas system to service selected 2 to 3 buildings/units at a time, but rather to provide control valves throughout the layout of buildings to shut just 2 to 3 buildings at a time leaving the perimeter gas system layout in complete operation.

Systematically, the layout for the **six (6")** diameter perimeter wrapped loop line system with **90 degree** 2" branch throughout the La Armada I and II properties, requires the Contractor for "new valve placement and existing valve replacement" to be responsible for verification of line size. Approximate depth of gas line is thirty (30") inches and generally located near

water line and its depth. Using the layout of existing gas distribution, the main line along Ayers Street from the Master Meter has branch lines with **2"** off set valves servicing the various La Armada corridors of 2, 3, and 4 Buildings between service drives, Painter and Southgate Streets. The Housing Authority Main Office, and 2 to 3 buildings behind the Office, are also served by the main City gas **supply** line. Across the service drive at Blanco and Rojo drive, La Armada I and La Armada II separate along Rojo drive at Southgate, and by shutting valve at intersection of East and Ayers, can cancel natural gas to nine (9) buildings with gas continuing to flow to the other buildings. Open the valve at Rojo and Southgate, natural gas can flow back to the nine (9) buildings again. Open main valve at East and Ayers, and close the two (2) valves at Verde Court, four (4) buildings will shut down with natural gas. Open the two (2) at Verde Court, and close the two (2) between Mango Court and Southgate, and five (5) buildings can be removed from gas service. From Painter Street at Ayers to Papayo and Yucca Court at Roosevelt Drive, Eleven (11) buildings can be shut down. Reopen and close valve at Painter and Ayers, and Rojo drive, and seven (7) buildings can be shut off with natural gas with everything else working. By closing and opening the various valves, La Armada I can continue to operate, but be closed in larger building areas, then 2 to 3 buildings at a time.

La Armada II, is controlled by **6"**cut off main valves at Rojo and Southgate and/or Rojo and Painter. As long as main supply line is open natural gas will flow to the various buildings in LA II. Close off both main natural gas cut off valves at Rojo and La Armada II will shut down, and La Armada I will remain operative. If more then one or two buildings are needing to be closed at one time, an additional valve or valves will need to be placed along La Armada II main line. A unit price for **6"**and 2" valve placement will be required at bid opening.

Using the Site Plans for **Revised** La Armada I and II Gas Distribution, the valve type for the Contractor placing valves per Corpus Christi Housing Authority property is "BROEN BALLOMAX" pipeline Straight Ball or approved equal. The Ballomax is non-lubricated and requires no maintenance. The carbon-steel body and stainless steel ball valve, 2" in diameter x 12" in length, and primarily for perimeter connecting lines to serve as a means to cut off and to work with 2 to 3 buildings at a time, in lieu of shutting down the complete natural gas supply system along Ayers. The valve ends are "ANSI B 16.25" prepared for "arc welding" without wet towels. "Gas welding" is not permitted, as the main body heat build up may exceed 250 degrees F unless additional heat protection is provided. The valve is to remain in full open position to transfer heat and limit weld splatter. Connect piping to 150/300 ANSI Ballomax valve. Ballomax opens counter clockwise and closes clockwise. The seamless valve body makes the Ballomax very desirable for underground usage. Valves shall incorporate a "safety grounded stem". Stem bearings shall be of electrically conductive material. All valves shall be furnished with a built in locking device containing a single lock wing indicating the open or closed position. Valves shall meet MSS-SP72, and be produced in accordance with ISO 9001 test certificate and be on file prior to valve approval. Any excessive test pressures will be discouraged as it may have a negative effect on any type of

distribution valve by hydrostatic test pressures that exceed 1 ½ times as the welder/contractor attempts to illustrate the welding strength. The valve shall be tested at 1 ½ times maximum operating pressure in the open position and at 1.1 times the maximum operating pressure in the closed position. The BALLOMAX valve is rejected If any leakage is recorded. Based on Hydrostatic Seat Test, the testing time for ¾" to 4" valves is equal to 2 minutes. Contractor for welding to comply with Manufacturer Testing procedures for compliance. Upon valve acceptance, **an 8"** diameter vertical PVC, schedule 40, pipe with **prefab metal cover** with adapter "screw on lid" is placed over valve stem **approximately 30" deep** and pipe line to safeguard finding available valve as it is covered and tamped full depth with moisture and top soil. Cut slits in the PVC **sleeve** to prevent damage to the gas line and valve.

As noted In the introduction, the natural gas line will be at an approximate depth of thirty (30") inches, and to comply with removal and replacement of existing valves. The "Gas Distribution Layout Plan", will show the approximate locations of the existing valves and metal detectors can be used to verify locations with assistance of Maintenance personnel. Proposed valves to be placed should be in a location, as noted by plan, and to the best interest of isolating 2 to 3 building at a time without closing a major area of buildings at a time. Carefully dig or **hydro excavate** the locations without damaging the gas line or other utility lines. Repair of damaged lines by utility Contractor will be the responsibility of Contractor for repair as approved by CFP (Capital Fund Dept.). Safety is most important for CCHA and Contractor including tenants as well as employees. Securing work area is essential for the welfare of the public and workers with Contractor approved layout for CFP Department. Submittals of gas valves, and **arc** weld method process including qualifications of personnel to be summited to the Capital Fund Department (CFP) subject to receiving bid and having required insurance, and licensing in accordance with gas line required **arc** welding systems. Compliance to be in accordance with all governmental permits and requirements to produce a safe project for the public and secure means of producing an improved gas line valve system to service the CCHA La Armada I and II project areas. "Gas Distribution Layout Plan" to be submitted by Contractor to represent "As Built Plan" upon completion of work.

Note : Twenty-Two (22) existing valves to be removed and replaced, and Forty-Four (44) new valves to be placed in Sixty-Five (65) working days, subject to weather.

Note : Additional **6"** and/or 2" valves to be provided by "Unit Price In Place" during Lump Sum bid submittal.

Note: **Six (6) valves of the 22 existing valves are 6" valves, whereas the remainder are 2" valves. The 44 new valves are 2" in size. At LA I Central Office north side at intersection of service drive and Southgate, a 4" line with valve, as shown by plan, is possibly in that location, as noted by Cathodic Protection Plan.**

Addendum #1

Note: During June 28 and 29, 2018, nine sites were hydro excavated and found to be approx.. 30" deep with 6" and 2" lines going to the buildings with valves. All wrapped and in black steel with good shape. Also, a Cathodic Protection Plan was located, line sizes are as shown in new Layout Plan.