The City Of

# San Angelo, Texas

**Engineering Services Department**
**72 W College Avenue, San Angelo, TX 76903**

## Addendum No. 1

**TO:** ALL PLAN HOLDERS

**DATE:** February 1, 2017

**PROJECT:** ES-04-17 Water Line Improvements

The plans of the above referenced project are modified as described below. All bidders shall acknowledge receipt of this and all other addenda on the Bid Form. This addendum becomes a part of the contract documents. All provisions of the original plans, and contract documents shall remain in full force and effect, except as modified by this addendum.

1. **Revised Delivery of Proposal**

   Sealed proposals must be delivered by 2:00 P.M., Local Time, February 9, 2017

2. **Technical Specifications**

   a. Remove and replace technical specification 4.3 Excavation and Backfill with attached.
   b. Remove and replace technical specification 4.49 Weighted Collars with attached.
   c. Change section 4.1.18 Sequencing and completion for the project to:
      1. Gillis Street from 1st to 2nd and 2nd Street from Gillis to Chadbourne
      2. Arden Rd, Horn St, and Sherwood Way
      3. Mackenzie St from W Ave L to Algerita Dr
      4. Knickerbocker and Beaty Rd

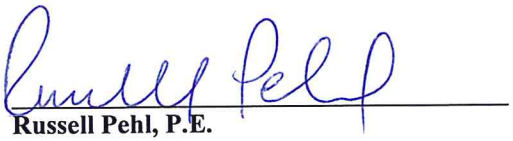
3. **Bid Form**

   Delete pages 1-2 and 17-20 in the ES-04-17 RFCSP Bid Form. Replace with Revised Bid Form, see attached.
   - Bid Item No. 2 – Changed to 8" AWWA C900 Class 150 PVC Pipe (also indicated on the corresponding plan sheets)
   - Add alternate Bid Item No. 2 refers to directional drilling replacing 1,429 LF of open cut on sheets W-822A, W-824A and W-825A

4. **Plans**

   a. **Plan Sheet W-816, W-817, W-819 and W-821 thru W-827**
   Remove and replace with attached W-816A, W-817A, W-819A and W-821A thru W-827A.

**Addendum Number One Issued By:**
**City of San Angelo - Engineering Services Department**



**Russell Pehl, P.E.**
**City Engineer**

**Attachments:**

1. **Contractor's Questions and Answers**
2. **Revised Technical Specifications**
3. **Revised Bid Form**
4. **Revised Plan Sheets**

**Contractor's Questions and Answers**

1. Q: Can we get more detail on HDPE pipe connection to existing pipe?
   A: Refer to the changes made on plan sheet W-816A.

2. Q: Can we get more detail on number of weights needed to submerge the proposed HDPE pipe?
   A: Refer to revised technical specification 4.49 Weighted Collars.

3. Q: How do we remove existing 16" pipe underneath the lake or can we leave in place?
   A: Refer to the changes made on plan sheet W-816A. Contractor can kill out and abandon in place.

4. Q: Need clarification on specification 4.3.1.2 Rock Excavation.
   A: Refer to revised technical specification 4.3 Excavation and Backfill.

5. Q: Can we add a line item for sidewalk replacement? There is sidewalk on Arden road that will be in conflict.
   A: We added a line item for an add alternate to directional drill this area in place of adding an additional line item for sidewalk.

6. Q: Can we have additional detail on fire service connections?
   A: We revised the plan sheets in question to show that the valve for the fire service connection should be at or near the property line. Therefore the section of line from the valve back to the main shall be city main and the remainder shall be the private fire service connection. The contractor shall be responsible for making the connection in accordance with current fire codes. The contractor will be required to coordinate the connection with the owner and the fire department.

7. Q: What is the DR thickness for the HDPE 16" pipe?
   A: DR 13.5 as revised on the bid sheet.

**REVISED TECHNICAL SPECIFICATIONS**

# 4.3 - Excavation and Backfill

## 4.3.0 General

### 4.3.0.1 Scope

This section covers excavation work and shall include the necessary clearing, grubbing, and preparation of the site; removal and disposal of all debris; excavation and trenching as required; the handling, storage, transportation, and disposal of all excavated material; all necessary sheeting, shoring, and protection work; preparation of subgrades; pumping and dewatering as necessary or required; protection of adjacent property; backfilling; pipe embedment; construction of fills and embankments; surfacing and grading pavement replacement, concrete blocking; and other appurtenant work. Excavation shall provide adequate working space and clearances for the work to be performed therein.

Subgrade surfaces shall be clean and free of loose material of any kind when concrete is placed thereon.

Backfilling and construction of fills and embankments during freezing weather shall not be done except by permission of the OWNER. No backfill, fill, or embankment materials shall be installed on frozen surfaces, nor shall frozen materials, snow, or ice be placed in any backfill, fill, or embankment.

## 4.3.1 Classification of Excavated Materials

All excavation shall be classified as either common excavation or rock excavation. Excavation and trenching work shall include the removal and subsequent handling of all materials excavated or otherwise removed in performance of the contract work.

### 4.3.1.1 Common Excavation

Common excavation is defined as the removal of all material which is not classified as rock excavation.

### 4.3.1.2 Rock Excavation

Rock excavation is defined as the removal of all materials which, by actual demonstration, cannot in the OWNER's opinion, be reasonably excavated with standard excavation equipment.

The OWNER reserves the right to waive the demonstration of the material encountered as well defined rock. The term "rock excavation" shall be understood to indicate a method of removal and not a geological material. In addition, rock excavation may include removal of well-defined rock by the method of mechanical splitting. In the areas where rock removal is required, Technical Specification 4.43, "Vibration Monitoring Specification," shall be followed.

~~No payment will be made under "Rock Excavation" for any method of rock removal other than mechanical splitting. Measurement shall be the depth per linear foot. The depth is the~~

~~difference in elevation between the theoretical bottom of bedding and the top of the original rock. The length or linear foot will be measured horizontally along the centerline of the trench.~~

### 4.3.2 Site Preparation

All areas of the site to be occupied by permanent construction or embankments shall be cleared of all trees, roots, brush, and other objectionable materials and debris. All stumps shall be grubbed. Subgrades for fills and embankments shall be cleaned and stripped of all surface vegetation, sod, and surface soils All waste materials shall be removed from the site and disposed of by and at the expense of the CONTRACTOR. Suitable surface soils shall be stockpiled on the site and used for final site grading. Excess surface soils, as determined by the OWNER, shall be removed at the CONTRACTOR`S expense.

### 4.3.3 Blasting

Blasting or other use of explosives for excavation will not be permitted without the consent of the OWNER.

### 4.3.4 Unauthorized Excavation

Except where otherwise authorized, shown, or specified, all materials excavated below the bottom of concrete walls, footings, slabs on grade, and foundations shall be replaced, by and at the expense of the CONTRACTOR, with concrete placed at the same time and monolithic with the concrete above. Excess excavation of trenches shall be refilled with material approved by the OWNER.

### 4.3.5 Dewatering

Dewatering equipment shall be provided to remove and dispose of all surface and ground water entering excavations, trenches, or other parts of the work. Each excavation shall be kept dry during subgrade preparation and continually thereafter until the structure to be built, or the pipe to be installed therein, is completed to the extent that no damage from hydrostatic pressure, flotation, or other cause will result.

All excavations for concrete structures or trenches which extend down to or below ground water shall be dewatered by lowering and keeping the ground water level beneath such excavations twelve inches (12") or more.

Surface water shall be diverted or otherwise prevented from entering excavated areas or trenches to the greatest extent practicable without causing damage to adjacent property.

The CONTRACTOR shall be responsible for the condition of any pipe or conduit which may be used for drainage purposes, and all such pipe or conduit shall be left clean and free of sediment.

All dewatering activities shall be in compliance with the Texas Commission on Environmental Quality (TCEQ) rules and guidelines, i.e. limit erosion, sediment disposal and permitting. All dewatering shall also be in compliance with Technical Specification 4.2.14, "Temporary Drainage Provisions," and Technical Specification 4.2.15, "Pollution Control." of this project specification manual.

### 4.3.6 Stabilization

Subgrades for concrete structures and trench bottoms shall be firm, dense, and thoroughly compacted and consolidated; shall be free from mud and muck; and shall be sufficiently stable to remain firm and intact under the feet of the workmen.

Subgrades for concrete structures or trench bottoms which are otherwise solid, but which become mucky on top shall be reinforced with crushed rock or gravel. The stabilizing material shall be spread and compacted to a depth of not more than four inches (4"). If the required depth exceeds four inches (4"), the material shall be spread and compacted by vibration. The finished elevation of stabilized subgrades shall not be above subgrade elevations indicated on the Plans.

### 4.3.7 Earth Fills and Embankments

Fills and embankments shall be constructed to lines and grades indicated on the Plans.

All material placed in fills and embankments shall be free from rocks or stones larger than four inches (4") in their greatest dimension, brush, stumps, roots, debris, and organic or other deleterious materials and shall be approved by the OWNER.

No rocks or stones shall be placed in the upper eighteen inches (18") of any fill or embankment. Rocks or stones within the allowable size limit may be incorporated in the remainder of fills and embankments provided they are distributed so that they do not interfere with proper compaction.

### 4.3.8 Subgrade Preparation

After preparation of the fill or embankment site, the areas of the subgrade shall be leveled and compacted to ninety-five percent (95%) of modified proctor density as determined by ASTM D1557 at optimum moisture content.

### 4.3.9 Placement and Compaction

All fill and embankment materials shall be placed in approximately horizontal layers not to exceed eight inches (8") in uncompacted thickness. Material deposited in piles or windows by excavating and hauling equipment shall be spread and leveled before compaction.
Each layer of material shall have the best practicable moisture content for satisfactory compaction. The material in each layer shall be wetted or dried as required and thoroughly mixed to ensure uniform moisture content and adequate compaction. Each layer shall be thoroughly compacted to ninety-five percent (95%) of modified proctor density at optimum moisture content as determined by ASTM D1557. If the material fails to meet the density specified, compaction methods shall be altered.

Wherever a trench is to pass through a fill or embankment, the fill or embankment material shall be placed and compacted to an elevation not less than twelve inches (12") or more than eighteen inches (18") above the top of pipe elevation before the trench is excavated.

### 4.3.10 Granular Fills

Granular fills shall be provided where required. Granular fills shall be placed on suitably prepared subgrades and compacted by vibration. Granular fill material shall be pea gravel, well graded and clean, 2-inch to No.4, meeting all requirements of ASTM C33. Crushed limestone will not be permitted. Granular fill shall be compacted to eighty percent (80%) relative density as determined by ASTM 2049.

### 4.3.11 Unsuitable Foundation Material

Soft, loose, or otherwise unsuitable foundation soils that occur shall be excavated and removed to the limits designated by the OWNER and replaced with compacted backfill. The compacted backfill shall comply with the requirements specified.

### 4.3.12 Trench Excavation

Trenches shall be excavated so that pipes can be laid straight at uniform grade, without dips or humps. All fill material shall be in compliance with the utility trench repair details shown in the Plans.

### 4.3.13 Minimum Cover

Where pipe grades or elevations are not definitely fixed by the contract Plans, trenches shall be excavated to a depth sufficient to provide a minimum depth of thirty inches (30") for pipe diameters of 12" and less and thirty-six inches (36") for pipe diameters larger than 12" of backfill cover over the top of the pipe, including couplings or bells.

### 4.3.14 Limiting Trench Widths

Trenches shall be excavated to a width which will provide adequate working space and sidewall clearances for proper pipe installation, jointing, and embedment. Trench widths from the bottom of the trench to an elevation one-foot above the top of the installed pipe shall be as follows:

| Nominal Pipe Size | Minimum Trench Width | Max. Trench width |
|---|---|---|
| <=16" | Pipe OD plus 12" | Pipe OD plus 18" |
| >16" | As specified by pipe manufacturer and approved by the OWNER | |

### 4.3.15 Compacted Backfill

Compacted backfill will be required for the full depth of the trench above the embedment in the following locations:

a) Where beneath surface construction, structures, or streets.

b) Where in future street right-of-ways.

c) Where beneath fills or embankments.

Compacted backfill shall be placed in eight inch (8") un-compacted thick layers and compacted at optimum moisture content to ninety-five percent (95%) modified proctor density as determined by ASTM D1557. Where the trench for one pipe passes beneath the trench for another pipe, backfill for the lower trench shall be compacted to the level of the bottom of the upper trench. The CONTRACTOR shall be responsible for providing all proctor data from all source pits used to be approved by the OWNER. The OWNER reserves the right to conduct density tests at any time, at the OWNER's expense.

Trench areas not required to have compacted backfill, shall be backfilled and stabilized by the water jetting method. Material shall be deposited in the trench in layers not exceeding two feet (2') thick. A water jet pipe shall be inserted at close intervals on opposite sides of the pipe and the material shall be adequately soaked so it will consolidate in the trench. Jetting methods shall be approved by the OWNER. Backfill not suitable for water jetting shall be placed by methods approved by the OWNER. Completed backfill shall be neatly rounded over the trench.

Where well pulverized or granular material is available from the trench excavation, which meets the approval of the OWNER for Backfill, the CONTRACTOR will be allowed to use the approved material from the excavation for Backfill as instructed by the OWNER.

## 4.3.16 Structure Backfill

The quality and moisture content of materials for backfill around and outside of structures shall conform to the requirements for materials used for trench backfill. Backfill materials shall be deposited in layers not to exceed eight inches (8") in uncompacted thickness and compacted to at least ninety-five percent (95%) of modified proctor density at optimum moisture content as determined by ASTM D1557. Compaction of structure backfill by rolling will be permitted provided the desired compaction is obtained and damage to the structure is prevented. Water jetting of structural backfill shall be allowed only upon permission of the OWNER.

No backfill shall be deposited or compacted in water. Particular care shall be taken to compact structure backfill which will be beneath pipes, surface construction, or structures. In addition, wherever a trench is to pass through structure backfill, the structure backfill shall be placed and compacted to an elevation not less than twelve inches (12") above the top of pipe elevation before the trench is excavated. Compacted areas, in each case, shall be adequate to support the item to be constructed or placed thereon.

## 4.3.17 Final Grading and Placement of Topsoil

After other outside work has been finished, and backfilling and embankments completed and settled, all areas which are to be graded shall be brought to grade at the indicated elevations, slopes, and contours. All cuts, fills, embankments, and other areas which have been disturbed or damaged by construction operations shall be surfaced with topsoil to a depth of at least four inches (4"). Topsoil may consist of the surface soils cleared from the site during site preparation and shall be of a quality at least equal to the existing topsoil in adjacent areas, free from trash, stones, and debris, and well suited to support plant growth.

Use of graders or other power equipment will be permitted for final grading and dressing of slopes, provided the result is uniform and equivalent to hand work. Unless otherwise indicated, a slope of at least one percent shall be provided.

Final grading and surfacing shall be smooth, even, and free from clods and stones larger than one-inch in greatest dimension, weeds, brush, and other debris.

### 4.3.18 Disposal of Excess Excavated Materials

Insofar as needed, suitable excavated materials shall be used. All excess excavated materials together with all debris stones, stumps, and roots shall be removed from the site and disposed of by, and at the expense of, the CONTRACTOR. Excess material or material which cannot be made suitable for use in embankments will be declared surplus and shall become the property of the CONTRACTOR to dispose of offsite at a permitted fill site, without liability to the OWNER or any individual. Such surplus material shall be removed from the Work site promptly following the completion of the portion of the utility involved.

### 4.3.19 Shoring and Sheathing of Excavations

Wherever necessary to prevent caving, excavation shall be adequately sheeted and braced. Where sheeting and bracing are used, the trench width shall be increased accordingly. Trench sheeting shall remain in place until the pipe has been laid, checked for defects and repaired if necessary and the trench backfilled to a depth of two feet (2') over the top of the pipe. The CONTRACTOR shall comply with all local, state and federal requirements for sheeting and shoring.

### 4.3.20 Settlement

The CONTRACTOR shall be responsible for all settlement of backfill, fills, and embankments which may occur within the correction period stipulated in the General Conditions.

The CONTRACTOR shall make, or cause to be made, all repairs or replacements made necessary by settlement within thirty (30) days after notice from the OWNER.

### 4.3.21 Pavement Replacement

Pavement surface, concrete, caliche, limestone, or asphaltic, replacement shall be done by the CONTRACTOR at his expense as indicated on the Plans.

### 4.3.22 Concrete Blocking

Concrete blocking shall be placed at bends, tees, wyes, crosses, plugs, hydrants, etc., in the water line. The concrete blocking shall be placed so as to rest against firm undisturbed trench walls. The supporting area for each block shall be sufficient to withstand the thrust, including water hammer. Each block, except those for upward thrusts, shall rest on a firm, undisturbed foundation of trench bottom. Where upward thrusts are to be blocked, the concrete blocking shall be of sufficient weight to resist the thrust and the concrete shall be reinforced as directed by the OWNER. Blocking shall not extend beyond any joints, cover any bolted connections or in any way restrict or inhibit the access to or workability of any component of the water line.

## 4.3.23 Measurement and Payment

All work and material furnished under this section is considered subsidiary to the various pay items; therefore, no additional payment shall be made for material furnished or work done under this section.

# 4.49 Weighted Collars

## 4.49.1 Scope

This section covers the furnishing and installation of weighted collars. The intent of the weighted collars is for submersion of periodic drained water pipe and maintaining the water pipe below a surface water body during and after construction operations.

## 4.49.2 Material Specifications

The weighted collars shall be constructed and designed such that it meets all AWWA standards (as applicable) and to resist the uplift buoyant forces exerted on an empty pipe, diameter shown on plans. All mechanical measures used to secure the weighted collars to the pipe shall be corrosion resistant, resistant to corrosion with full submersion in water and prevention from sliding along the pipe during and after installation.

Material specifications shall be submitted to the OWNER, for review and approval, prior to the start of any construction. The OWNER will provide written approval once approved. The material specification shall be submitted (at a minimum) on the manufacturer's letterhead with the manufacturer's contact information.

## 4.49.2 General Installation

Installation method shall be determined by the CONTRACTOR. The selected method of construction shall be submitted, in writing, to the OWNER three (3) weeks prior to construction for review and approval. The OWNER shall have a minimum of one (1) week to review construction method and will provide written approval once approved. The installation method shall be within standard installation procedures and as recommended by the manufacturer.

Installation shall not damage the integrity of the pipe in any manner. If the integrity of the pipe is compromised, replacement of the pipe and/or collar will be the responsibility of the CONTRACTOR.

The collars shall weigh and be spaced in accordance with AWWA, Plastic Pipe Institute, Inc. (PPI) Marine Installations and withstand buoyant forces of 135 lbs./ft.

## 4.49.3 Measurement and Payment

All work and material furnished under this section is considered subsidiary to the various pay items; therefore, no additional payment shall be made for work done under this section.

**REVISED BID FORM**

CITY OF SAN ANGELO
PURCHASING DIVISION
72 West College Avenue, San Angelo, Texas 76903
Tel: (325) 657-4219

# 1. REQUEST FOR SEALED PROPOSAL

## 1.1. Scope of Work

The City of San Angelo is accepting sealed proposals for the replacement of existing water mains, water valves, and fire hydrants and reestablishment of service connections to the mains in Arden Road, Sherwood Way, Knickerbocker Road, Mackenzie Street, Gillis Street, and 2nd Street.

Furnish and install approximately:

- ~~16" AWWA HDPE Pipe – 502 LF~~ 16" AWWA DR 13.5 HDPE Pipe – 502 LF
- ~~6" AWAA C900 Class 150 PVC Pipe – 5,819 LF~~ 8" AWWA C900 Class 150 PVC Pipe – 5,872 LF
- 4" AWWA C900 Class 150 PVC Pipe – 23 LF
- 6" Resilient Seat Gate Valve – Quantity ~~14~~ 18
- 4" Resilient Seat Gate Valve – Quantity 1
- 16"x16" Wet Tap – Quantity 2
- 12"x8" Wet Tap – Quantity 2
- ~~6"x6" Wet Tap – Quantity 1~~ 8"x6" Wet Tap – Quantity 1
- 4" Fire Service – Quantity 1
- 6" Fire Service – Quantity ~~2~~ 1
- 2" Service Line – Quantity 12
- 1" Service Line – Quantity 75
- Partial Plumber Relocates – Quantity 3
- Fire Hydrant Assemblies – Quantity ~~4~~ 5
- Trench Safety – ~~6,344 LF~~ 6,397 LF

*LF = Linear Feet*

Estimated Completion: 240 Calendar Days
Estimated Project Cost: $750,000.00

## 1.2. Document, Plans and Specifications Availability

Contract documents, including plans and specifications, are available to be examined in the Purchasing Division, Suite 330, City Hall, San Angelo, Texas or downloaded at http://cosatx.us at no cost.

Proposal documents, plans, and specifications may be obtained at the Purchasing Department, Suite 330, City Hall at a cost of $20.00 per set. No refunds will be made and no partial sets will be issued.

## 1.3. Pre-Proposal Conference

A non-mandatory pre-proposal conference will be held **January 11, 2017 at 3:00 P.M**., in the basement conference room of **City Hall at 72 W. College Ave., San Angelo, TX. 76903**. Representatives of the City will discuss the project and answer questions regarding proposal procedures.

## 1.4. Digital Format

If respondents obtained the specifications in digital format in order to prepare a proposal, the ***proposal must be submitted in hard copy*** according to the instructions contained in this publication. If, in its proposal response, the respondent makes any changes whatsoever to the published proposal specifications, the proposal specification ***as published*** shall control. Furthermore, if an alteration of any kind to the proposal specification is discovered after the contract is executed and is or is not being performed, the contract is subject to immediate cancellation without recourse.

## 1.5. Insurance and Indemnification Requirements

Insurance and indemnification requirements applicable to this project are included within the draft contract form included within this proposal package. Please review the insurance and indemnification requirements with your insurance agent **prior** to submitting your proposal.

## 1.6. Delivery of Proposal

Sealed proposals must be delivered by ~~**2:00 P.M., Local Time, January 25, 2017**~~ **2:00 P.M., Local Time, February 9, 2017 to:**

Purchasing Division - ES-04-17, Suite 330
City of San Angelo
72 West College Avenue
San Angelo, Texas 76903

**Mark Envelope: "RFCSP NO. ES-04-17/Water Line Improvements"**

*It is the sole responsibility of the firm to ensure that the sealed submittal arrives at the above location by specified deadline regardless of method chosen by the company for delivery.*

*Faxed or electronically transmitted submittals will not be accepted*

**1.7. Proposal Withdrawal**
No proposal may be withdrawn within a period of 90 days after the date fixed for opening.

**1.8. Qualification Statement**
Prospective respondents should be advised that a qualification statement might be required by the City upon request.

**1.9. Confidentiality**
All proposals submitted shall remain confidential. After award and contract execution, proposals will be made available for public inspection. The City shall not be responsible for the confidentiality of any trade secrets or other information contained or disclosed in the proposal unless clearly identified as such.

**1.10. Equal Opportunity Employers**
All contractors and subcontractors must be Equal Opportunity Employers. Disadvantaged and Minority respondents are encouraged to participate.

**1.11. Points of Contact**

**RFCSP:**

**Candice Blake, Specialist**
Purchasing Division
City of San Angelo
72 W. College Ave.
San Angelo, Texas 76903
(325) 657-4219
sapurch@cosatx.us

**Project After Award:**

~~**Russell Pehl, City Engineer**~~
**Quang Nguyen, Project Engineer**
Engineering Services Division
City of San Angelo
72 W. College Ave.
San Angelo, Texas 76903

CITY OF SAN ANGELO
PURCHASING DIVISION
72 West College Avenue, San Angelo, Texas 76903
Tel: (325) 657-4219

Company Name

## Price Proposal

**RFCSP: ES-04-17/Water Line Improvements**

Pursuant to the Foregoing Notice to Respondents, the undersigned respondent hereby proposes to do all work and furnish all necessary superintendence, labor, machinery, equipment, tools, and materials, and whatever else may be necessary to complete all work upon which the proposals, as provided by the attached specifications and shown on the plans, and binds himself on acceptance of this proposal to execute an agreement and bonds according to the accompanying forms, for performing and completing the said work within the time stated, and furnishing all required guarantees, for the following prices to-wit:

### Summary

| Item No. | Item Description | Quantity | Units | Unit Cost | Extended Cost |
|---|---|---|---|---|---|
| **1** | 16" AWWA DR 13.5 HDPE PIPE | 502 | LF | | |
| **2** | 8" AWWA C900 CLASS 150 PVC PIPE | 5,872 | LF | | |
| **3** | 4" AWWA C900 CLASS 150 PVC PIPE | 23 | LF | | |
| **4** | 6" RESILIENT SEAT GATE VALVE | 18 | EA | | |
| **5** | 4" RESILIENT SEAT GATE VALVE | 1 | EA | | |
| **6** | 16"x 16" WET TAP | 2 | EA | | |
| **7** | 12"x 8" WET TAP | 2 | EA | | |
| **8** | 8"x 6" WET TAP | 1 | EA | | |
| **9** | 4" FIRE SERVICE | 1 | LS | | |
| **10** | 6" FIRE SERVICE | 2 | LS | | |
| **11** | 2" SERVICE LINE | 12 | EA | | |
| **12** | 1" SERVICE LINE | 75 | EA | | |
| **13** | PARTIAL PLUMBER RELOCATES | 3 | EA | | |
| **14** | FIRE HYDRANT ASSEMBLY | 4 | EA | | |
| **15** | TRENCH SAFETY | 6,397 | LF | | |
| **16** | CONTINGENCY | 1 | LS | $65,000 | $65,000 |
| | | | | **Total** | $ |

**ADD ALTERNATE (REFER TO PLANS W-822A, W-824A AND W-825A)**

| Item No. | Item Description | Quantity | Units | Unit Cost | Extended Cost |
|---|---|---|---|---|---|
| **2a** | 8" AWWA C900 CLASS 150 PVC PIPE | 4,443 | LF | | |
| **2b** | 8" AWWA C900 CLASS 235 – DR 18 CERTA LOK PVC PIPE (DIRECTIONAL DRILL OPTION) | 1,429 | LF | | |
| | | | | **Total** | $ |

CITY OF SAN ANGELO
PURCHASING DIVISION
72 West College Avenue, San Angelo, Texas 76903
Tel: (325) 657-4219

*In the case of a pricing discrepancy, the Unit Price will prevail.*

The item "Contingency" is included for additional work that may be performed. The total unit cost for this line item may not be paid in full. The respondent shall submit change order requests within the contract to the City consistent with the requirement of the Owner's Construction General Conditions of the contract documents. Generally, change order requests will be funded by the "CONTINGENCY" line item. The respondent shall include the cost for this item in the "Total Base Price".

**1 Water Line Improvements Base Bid**

_____ **Dollars and** _____ **Cents**

**2 Water Line Improvements Base with Alternate**

_____ **Dollars and** _____ **Cents**

A Performance Bond and Payment Bond will be required based on the Total amount including contingency.

Liquidated Damages: Timely completion of this project is necessary to prevent delays in street reconstruction project(s) and to minimize project impact to the public.

Should the respondent not complete the work at a permitted site within the required time period, the City may, at its option, assess an $820.00 per day delinquent charge against the respondent, until such time as work at the site is complete. Estimated completion time is 240 calendar days.

Reservation: Respondent understands the City reserves the right to reject any irregular proposal and the right to waive technicalities if such waiver is in the best interest of the City and conforms to state and local laws and ordinances pertaining to the letting of construction

**REVISED PLAN SHEETS**