

SECTION 01-20-00

PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Measurement and payment criteria applicable to portions of the Work performed where unit price adjustments are provided.
- B. Defect assessment and non-payment for rejected work.

1.2 AUTHORITY

- A. The Engineer will take all measurements and compute quantities accordingly.
- B. Contractor shall assist Engineer by providing necessary equipment, workers, and survey personnel as required.
- C. Owner or City refers to the City of Alamosa Public Works Department.

1.3 ADJUSTMENT UNIT QUANTITIES SPECIFIED

- A. All estimated quantities stipulated in the Bid Form or other contract Documents are approximate and are to be used only as a basis for estimating the probable cost of the Work and for the purpose of comparing the bids submitted for the Work. The actual amounts of the work done, and materials furnished under unit price items may differ from the estimated quantities.
- B. The basis of payment for work and materials will be the actual amount of work done and materials furnished. Contractor agrees to make no claim for damages, anticipated profits, or otherwise on account of any difference between the amounts of work actually performed and materials actually furnished and the estimated amounts thereof.
- C. Quantities and measurements supplied or placed in the Work and verified by the Engineer shall determine final payment. The Contractor must seek written permission from the City before commencing any work which will bring the actual amount of work done over the estimated amount for each bid item.
- D. If the actual Work requires more or fewer quantities than those quantities indicated in the estimated amounts, Contractor will provide the required quantities at the unit prices contracted.

- E. Final payment on the contract will not be authorized until all required submittals are made and approved.

1.4 MEASUREMENT OF QUANTITIES

A. Measurement Devices:

1. Weigh Scales: Inspected, tested and certified by the State of Colorado Department of Agriculture within the past year.
2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
3. Metering Devices: Inspected, tested and certified by the applicable State Department within the past year.

B. Measurement by Weight: Measured by actual scale ticket weight for specific items identified.

C. Measurement by Volume: Measured by actual area and depth of in place material.

D. Measurement by Area: measured by square dimension using mean length and width or radius.

E. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.

F. Stipulated Sum/Price Measurement: Items measured by weight, volume, area or linear means or combination, as appropriate, as a completed item or unit of the Work.

1.5 PAYMENT

A. The Total Contract Cost shall cover all Work required by the Contract Documents. All costs in connection with the proper and successful completion of the Work, including furnishing all materials, equipment, supplies and appurtenances; providing all construction plant, equipment, and tools; and performing all necessary labor and supervision to fully complete the Work, shall be included in the unit prices bid.

B. All Work not specifically set forth as a pay item in the Bid Form shall be considered a subsidiary obligation of the Contractor and all costs in connection therewith shall be included in the prices bid.

C. Payment Includes: Full compensation for all required labor, products, tools, equipment, transportation, services and incidentals; erection, application or

installation of an item of Work; acceptance testing; clean-up and restoration; overhead and profit.

- D. Final payment for Work governed by unit prices will be made based on the actual measurements and quantities accepted by the City multiplied by the unit sum/price for Work which is incorporated in or made necessary by the Work.

1.6 DEFECT ASSESSMENT

- A. Contractor shall replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the City, it is not practical to remove and replace the defective Work, the City will direct one of the following remedies:
 - 1. The defective Work may remain, but the unit sum/price will be adjusted to a new sum/price at the discretion of the City.
 - 2. The defective Work will be partially repaired to the instructions of the City, and the unit sum/price will be adjusted to a new sum/price at the discretion of the City.
- C. The individual specification sections may modify these options or may identify a specific formula or percentage sum/price reduction.
- D. The authority of the City to assess the defect and identify payment adjustment is final.

1.7 NON-PAYMENT FOR REJECTED PRODUCTS

- A. Payment will not be made for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from the transporting vehicle.
 - 4. Products placed beyond the lines and levels of the Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling, and disposing of rejected products.

1.8 SCHEDULE UNIT PRICES

The unit prices shall encompass all work required to complete the Work in accordance with the drawings and specifications and the limits on quantities of certain items of work, as follows:

BID ITEM DESCRIPTION

Bid Schedule A – LIFT STATION

1. MOBILIZATION AND BONDING:

This bid item shall include all costs for bonds including performance bond and payment bond; insurance, establishing temporary facilities, as required, moving construction equipment and materials to and from the site, and all appurtenances related to the work not otherwise specifically called out. The pay item is one (1) lump sum, with 50% to be withheld until completion and acceptance of the work.

2. 6’x16’x13’ CONCRETE WET WELL:

This bid item shall include all costs associated with the fabrication, construction, aggregate base, geogrid, pipe connections, haul and installation of the concrete wet well. This bid item includes all equipment, labor, supervision, final grading, shaping necessary to provide a complete installation of the wet well as shown in the plans. The pay item is Lump Sum.

3. 8’X8’X9’ CONCRETE VALVE VAULT:

This bid item shall include all costs associated with the construction, haul and installation of the concrete valve vault including, aggregate base, geogrid and pipe connections, labor, supervision, final grading, shaping necessary to provide a complete installation of the valve vault as shown in the plans. The pay item is Lump Sum.

4. INSTALLATION OF SULZER/ ABS 10 HP PUMPS AND WET WELL EQUIPMENT:

The City of Alamosa will purchase and provide to the site the equipment specified to be purchased from Falcon Environmental Corp. This includes (2) Sulzer/ABS model XFP151E-CB1.4PE-75/4 6” submersible pumps with 10 HP motor and 49’ power cord suitable for 3/60/460V power, (2) guide rail assembly with integral 4-inch discharge elbow and SS hardware, (2) stainless steel upper guide rail bracket, (1) 2 inch, 304 SS, Sch. 40, 20 ft. long guide rail, (2) 20 ft. of 316 SS high strength pump lifting chain with shackles, (2) 6” dia Rapid Jack. check valves, (1) FOGRod probe with controller, (1) Aluminum Hatch. This bid item shall include all costs associated with the installation of the equipment provided by the City. The pay item is Lump Sum.

5. 6’x10’x 6” THICK CONCRETE SLAB:

This bid item shall include all costs associated with the construction of a concrete slab to support the pump control panel. This includes subgrade preparation,

forming, concrete and installation of supports for the control panel, labor and supervision. The pay item is Lump Sum.

6. **DIP PIPING, FITTINGS AND VALVES:**

This bid item shall include the contractors purchase and installation of all Ductile Iron Pipe and Fittings as shown on the plans and includes the purchase and installation of all other valves, fittings, and piping within the wet well and valve vault, not included in the equipment purchased from Falcon Environmental Corp by the City of Alamosa. The pay item is Lump Sum.

7. **12” SDR 35 PVC PIPE:**

The unit cost bid per lineal foot of installed storm drain pipe includes but is not limited to the purchase and freight of all materials, excavation for pipe, trenching, installation, backfill, compaction, connection to structures, labor, supervision and all incidental items required to complete the pipe installation in accordance with the plans, details, and specifications. The unit cost pay item is one Lineal Foot.

8. **15” SDR 35 PVC PIPE:**

The unit cost bid per lineal foot of installed storm drain pipe includes but is not limited to the purchase and freight of all materials, excavation for pipe, trenching, installation, backfill, compaction, connection to structures, labor, supervision, and all incidental items required to complete the pipe installation in accordance with the plans, details, and specifications. The unit cost pay item is one Lineal Foot.

9. **ELECTRICAL SERVICE:**

This bid item includes all coordination, work, materials, and installation costs to complete the electrical service and installation of the pump control panel for the lift station. The contractor shall coordinate with the City of Alamosa and Xcel Energy to install a complete electrical system to operate the lift station as intended and shown on the plans. The pay item is Lump Sum.

10. **LIFT STATION STARTUP:**

This bid item includes all work, trouble shooting, and coordination to start the lift station and make sure it is operating as intended.

11. **CLASS 5 COMPACTED AGGREGATE BASE COURSE:**

This bid item includes all materials, haul, placement, subgrade preparation, grading, labor, supervision, and all incidentals required to install the base course around the lift station and the roadway to Foster Avenue as shown on the plans. The pay item is per Ton.

12. **NEW CHAIN LINK FENCE:** This bid item includes all work, materials, supervision, and incidentals required to install a new chain link fence as shown on the plans. The contractor may re-locate the existing fence on the north side as shown and install approximately 20 lf of new fence along the west side. This bid item includes the installation of a 12’ wide gate along the east side as shown. The pay item is per lineal feet.

13. **DEWATERING FOR STRUCTURES:** This bid item includes dewatering for structures and includes but is not limited to the design of the dewatering system, installation of all dewatering points, pumps, materials, labor, equipment and supervision necessary to design, install, operate, monitor, maintain and remove a temporary dewatering system as necessary to lower and control water levels below structure excavations. The pay item is lump sum.

Bid Schedule B – FORCE MAIN

1. **MOBILIZATION AND BONDING:** This bid item shall include all costs for bonds including performance bond and payment bond; insurance, establishing temporary facilities, as required, moving construction equipment and materials to and from the site, and all appurtenances related to the work not otherwise specifically called out. The pay item is one (1) lump sum, with 50% to be withheld until completion and acceptance of the work.
2. **12” C900 PVC FORCEMAIN PIPE AND FITTINGS:** The unit cost bid per lineal foot of installed forcemain pipe includes but is not limited to the purchase and freight of all materials, pipe, fittings, excavation for pipe, trenching, installation, backfill, compaction, connection to structures, labor, supervision, and all incidental items required to complete the pipe installation in accordance with the plans, details, and specifications. The unit cost pay item is one Lineal Foot.
3. **ASPHALT PATCH:** This bid item includes all materials, grading, haul, labor, supervision, and incidentals required to provide asphalt patch at West 10th Street and at the Coop Road as shown on the plans. The unit cost pay item is one Square Yard.
4. **AIR/VAC VALVE AND VAULT:** This bid item includes all materials, valves, equipment, piping, earthwork, grading, gravel base, concrete sections, manhole cover, labor, supervision, and all incidentals required to install the Air/Vac valves and vault in accordance with the plans. The unit cost pay item is each.
5. **OUTFALL STRUCTURE:** This bid item includes all excavation, concrete construction, grating, rip rap, hymax coupling, grading, duck bill valve, coordination with the ditch company, labor, supervision, and all incidentals required to complete the outfall structure installation in accordance with the plans. The pay item is Lump Sum.
6. **DEWATERING FOR PIPE INSTALLATION (If Required) :** The unit cost bid for dewatering required for pipe installation includes the design of the dewatering system, installation of all dewatering points, pumps, materials, labor, equipment, supervision necessary to design, install, operate, monitor, maintain and remove a

temporary dewatering system as necessary to lower and control water levels below the pipe installation. The pay item is per lineal feet as required.

7. **FORCEMAIN CLEAN OUT:** This item includes all fittings, piping, bolted covers, concrete collar, excavation, labor, supervision, and all incidentals required to install the cleanouts as shown on the plans. The pay item is each.