CITY OF Grand Junction COLORADO

Purchasing Division

ADDENDUM NO. 4

DATE: **July 26, 2021**
FROM: **City of Grand Junction Purchasing Division**
TO: **All Offerors**
RE: **2021 Kannah Creek Flowline Replacement Construction IFB-4926-21-DH**

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. Looks like the City will be providing the manually operated BFVs on this project, but accepting bids for the two electrically actuated 20" BFVs?

   A. Reference the solicitation Bid Schedule for detail. The City-provided (noted as "Install Only") BFV will be manually actuated. The contractor-provided valves shall be electronically actuated.

2. Q. Can Val-Matic BFVs be included in the accepted manufacturers list?

   A. Val-Matic is an acceptable brand for BFV's.

3. Q. I looked but couldn't find a spec for the electric motor actuators. Please let me know if I'm missing something. We'd be looking to bid the AUMA EMAs.

   A. The Construction Documents will be amended with Section 15100; Electric Actuators. See attached to review this specification. Actuator shall be Rotork Controls brand for consistency with existing equipment.

4. Q. Bid Item #9 - 6" PVC (C900 DR18) - Install Only – 1460 LF. We only found 1260 LF in the plans.

   A. Bid quantity as shown on the Bid Schedule.

5. Q. Bid Item #10 - 20" Butterfly Valve - Install Only. We could not find the location in plans.

   A. See Sheet C1.3

6. Q. Page no #14 in Drawings calls for seepage collars at Juniata Ditch crossing. Can you please provide us with a detail for seepage collars?

A. See Groundwater Barrier Detail (3/C1.0).

7. Q. Will pipe spoils be allowed to be spread and left onsite within ROW prior to seeding?

   A. Spoils shall be dispersed/stockpiled at designated stockpile site as noted in the Pre-Bid meeting. See attached Figure 1 for approximate location.

8. Q. Is fusible HDPE pipe acceptable as an alternate for 20” DR18?

   A. No.

9. Q. Without knowing what the water level would be for the installation of Inlet Tower Structure, it would be difficult to estimate the dewatering required. Can the city change the dewatering item to a force account?

   A. Bid quantity as shown on the Bid Schedule.

10. Q. Can you please confirm the location of the existing stockpile?

    A. See Question 7.

11. Q. #13 & #14 plug- are these to be concrete plug?

    A. Concrete or Mechanical Restraint plugs are acceptable. Blocking pipe end loosely and backfilling shall not be acceptable.

12. Q. #16 20” bends- Bid shows 16, plans have 17. 6-45, 4-22,7-11?

    A. Bid quantity as shown on the Bid Schedule.

13. Q. #24 air vac- What size are the air vacs? And depending on size (4”+), won’t the fittings and accessories change to flange like past phases?

    A. Air vacs are 6”. See CD1.0 for detail.

14. Q. #26 slope stability- Do you have a detail for this item? Shown on page #C1.6 but no specs or detail. Any special geogrid or geotextile?

    A. Riprap Rundown Detail (2/C3.0) shall be used to bid slope stability installation.

15. Q. Duck bill- Do you know how much back pressure will be present?

    A. This pipe releases into an irrigation ditch. No back pressure is anticipated.

16. Q. #7 connect to existing- are you wanting a Hymax or equal for connecting to the 6” and 20” pipe? Or are you looking for some other kind connection?

    A. Hymax or equivalent is acceptable for the 6” connection to existing. The downstreamt connection is a 20” by 18” reducer with mega-lug restraint. The upstream connection shall be the 22.5° Elbow with mega-lug restraint.

17. Q. Do you have a spec for the 20” electronic actuated butterfly valves and actuators? I found the spec for the (DIRECT BURY) butterfly valves on sheet 02510-13 but I didn’t see any information for the valves in the vaults. Sheet CD1.1 notes a grooved butterfly valve with actuator but that is all the info I could find. Please let me know if you have more detail for these or if I am missing something.

    A. See Question 3.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado

SECTION 01010

ELECTRIC ACTUATORS (OPERATORS)

1. Electric Actuators (Operators)
   a. Provide motor actuators as indicated on Drawings and Schedules
   a. Each motor actuator to consist of motor, actuator unit gearing, handwheel, limit and torque switches, mechanical position indicator, lubricants, wiring, terminals and integral reversing controller on capacitance starter as indicated, constructed as a self-contained unit
   b. Housing: Cast, weatherproof, NEMA 4 unless indicated otherwise
      1) Operating time from fully open to fully closed or the reverse:
      2) For open/close valves: 30 seconds
      3) For modulating valves: adjustable from 15 seconds to two minutes
   c. Motors
      1) Mounted horizontally adjacent to or vertically above gearing
      2) Do not mount with motor vertical below gearing
      3) Totally enclosed, high torque, designed expressly for valve operator service
      4) Service rating:
         a) Open/close service motors shall be rated for 15-minute continuous duty
         b) Modulating service motors shall be rated for a minimum of 600 starts/hour
         c) Designed in accordance with NEMA Standards
         d) Insulation: Class F or better
         e) Bearings: Permanently lubricated
         f) Voltage tolerance: +/- 10 percent
         g) Voltage rating: 480 Volt, 60 Hz, 3 phase
         h) Conform to AWWA C542
      5) Gearing
         a) All grease lubricated
         b) Service factor: 2.0
         c) Effectively sealed against entrance of foreign material
         d) AGMA nameplate not required
         e) Supported by anti-friction bearings
      6) Designed so motor comes up to speed before stem load is encountered in opening and closing direction
      7) Self-locking worm gear drive with alloy bronze worm gear and hardened steel worm
      8) Handwheel/Chainwheel mechanism
         a) Designed to handwheel/chainwheel does not operate during motor operation
         b) Designed so motor does not rotate when handwheel/chainwheel is rotated after declutching
         c) Provide declutching extensions to allow declutching of all electric actuators from floor level
         d) Actuator responsive to electrical power and control at all times, instantly disengaging handwheel/chainwheel
         e) Shall meet all requirements for manual actuator
      9) Torque switches
         a) Provide opening and closing torque and thrust limit switches
         b) Micrometer adjustment on each switch
         c) Reference setting indicator
         d) Variability 40 percent
         e) Contact rating: 6 amp inductive at 120 Vac
      10) Geared limit switches

a) Space for 4 geared limit switch assemblies
b) Each assembly with 2 sets of NO contacts and 2 sets of NC contacts
c) Each assembly geared to driving mechanism and independently adjustable to transfer at any point between fully open and fully closed valve position
d) Contact rating: 6 amp inductive at 120 Vac
e) Provide three limit switch assemblies

11) Terminal facilities: Provide for connection to motor leads, switches, heating elements, control and power supply
12) Controller
    a) Integrally mounted solid state reversing controller for modulating operators, integrally mounted electromechanical controller for open-close operators
    b) Motor overload protective device
    c) Electrically interlocked
    d) Provided with the necessary direct operated auxiliary contacts for required interlocking and control
13) Pilot devices, Modulating Service
    a) In a weatherproof enclosure close-coupled to actuator housing
    b) Open-stop-close maintained contact push buttons
    c) Hand-Auto maintained selector switch
    d) Red “Open” and green “Closed” indicating lights
    e) Auto position of selector allows 4-20 ma input proportional to required valve position
14) Pilot Devices, Open/Close Service
    a) In a weatherproof enclosure close-coupled to actuator housing
    b) Local Open/Close maintained pushbuttons
    c) Local Hand-Auto maintained selector switch
    d) Local red “Open” and green “Closed” indicating light
    e) Auto position of selector allows open or close operation from remote un-powered contact from maximum distance of 300 feet
15) NEMA Size 1 minimum
16) Action on loss of command signal shall be selectable to include open, close, or last position
17) Controller for modulating service shall include provisions for zero, span gain, opening and closing speed potentiometer and deadband adjustment
18) Manufacturers and Products:
    a) Rotork Controls

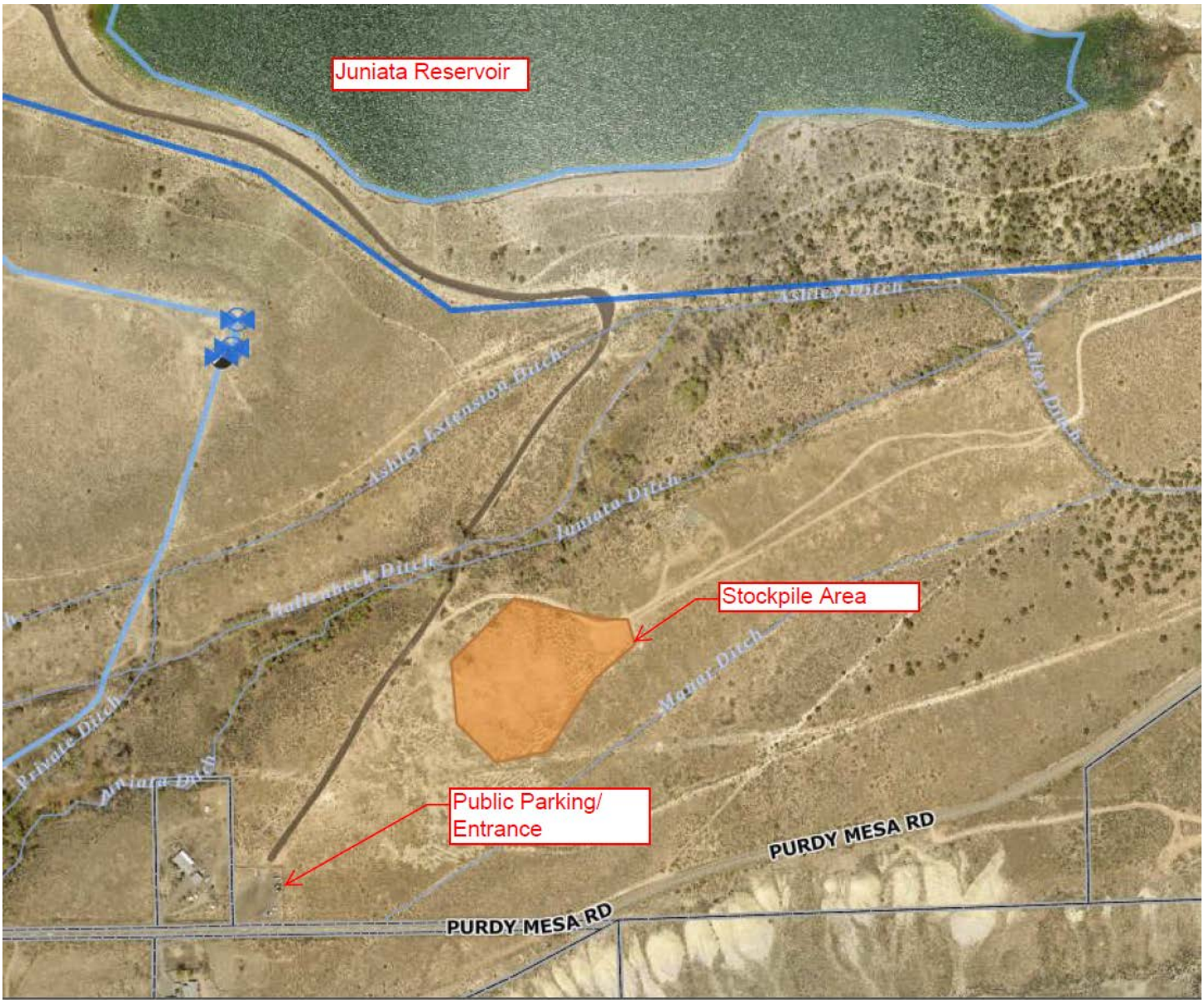

Figure 1. Approximate Location of Stockpile Area