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ADDENDUM No. TWO

Date: November 15, 2023
Project: LAS Expansion & Sewer System Improvements, ARPA Grant No. GA-0010529, MES No. 2020-48
Engineer: M.E. Sack Engineering
Hinesville, Georgia

The original plans, specifications, and/or Bid Documents are amended to include the following:

Specifications:

- Replace the previous Section 01150 Measurement and Payment with the enclosed of the same.

The following clarification is provided for questions received:

LAS Expansion:

1. *Can the weir of the structure FC-7 be removed and replaced?*
 - Yes, the weir plat can be removed, modified, and reinstalled should the Contractor deem it possible.
2. *What is the model of the pumps?*
 - The pumps are National Pumps model E12MC, with a 9.75 inch diameter impeller.
3. *Can it be replaced one pump at a time?*
 - Yes, the pumps can be installed one at a time. The City will work with the Contractor to remove flow from the pit so long as the downtime is after the new irrigation and piping is in place first.

Pump Station Improvements and Force Main Addition

4. *Is coating required for the wet well?*

- The existing wet well is already coated; however, the coating of the dry well is required, as well as the last manhole lining. This is specified in Section 02650 paragraph 2.03. Coating and lining should be included as part of the PUMP STATION COMPLETE item. Section 01150 was revised to include the coating and lining requirement. Raven or SpectraShield lining is acceptable

-END-



**SECTION 01150
MEASUREMENT AND PAYMENT**

PART 1- GENERAL

1.01 QUANTITIES

- A. Quantities: Quantities listed in the Proposal are approximate only and are intended to serve as a guide in comparing bids and may be increased or decreased without invalidating the unit price bid.
- B. Payment: The contractor shall be paid for actual in-place quantities as determined by the Engineer's field measurements.
- C. Discrepancies: In case of discrepancies between the figures shown in the unit prices and totals, the unit prices shall apply, and the totals shall be corrected to agree with the unit price.

PART 2 - MEASUREMENT AND PAYMENT

2.01 SPRAY FIELD PIPING

- A. Measurement: Measurement shall be made along the centerline of the pipe trench through fittings and specials with no deduction for such fittings and specials.
- B. Payment: Payment will be made for each linear foot of polyethylene tubing installed at the unit price stated in the bid. The unit price bid shall include all labor, materials, and equipment necessary to complete the installation including, but not limited to, trenching, excavation, shoring and sheeting, dewatering, bedding, pipe, backfill, compaction, testing, and complete surface restoration.

2.02 LAND APPLICATION SYSTEM SPRAY FIELD SPRINKLERS AND SPRINKLER HEAD SUPPORTS

- A. Measurement: Measurement shall be made on the basis of each sprinkler installed and each sprinkler head support. Each sprinkler shall be categorized as a half-circle or full-circle spray head in the design drawings.
- B. Payment: Payment will be made for each spray head unit installed and for each support installed for the sprinkler heads at the unit prices stated in the bid. The unit price bid shall include labor, materials, and equipment necessary, including, but not limited to, locating existing connection points, installation of sprinkler heads, length of polyethylene tubing installed, each unit of distribution lateral tees installed, and testing at 45 psi.

2.03 SILT FENCE

- A. Measurement: Measurement shall be made on the basis of each linear foot of silt fence installed in accordance with the Plans, Specifications and "The Manual for Erosion and Sediment Control in Georgia."
- B. Payment: Payment will be made in accordance with the price stated in the bid. The unit price shall include, but is not limited to, furnishing all labor, materials, and equipment necessary to prevent erosion from the site. Work shall include, but not be limited to, excavation, trenching, post and fabric installation, backfill, daily inspection, maintenance, re-installation of failed sections, sediment removal once its one-half original height of fence. Once final stabilization has occurred, removal and disposal of fence and surface restoration of remaining disturbed area. All silt fence locations shall be approved by the Engineer prior to installation. No payment will be made for silt fence installed without approval of Engineer or silt fence not properly maintained.

2.04 GRASSING

- A. Measurement: Measurement shall be made on the basis of the completed item in accordance with the construction plans and bid items.
- B. Payment: Payment will be made in accordance with the price stated in the bid. The unit price shall include, but is not limited to, furnishing all labor, materials, and equipment necessary for the satisfactory growth of grass on all disturbed areas in accordance with plans and specifications. Work shall include, but not be limited to, furnishing all materials, fertilizer, soil samples, grass seed, raking, leveling, watering, maintenance, and final surface restoration. Final payment will not occur until permanent grass is established.

2.05 LAS PUMP STATION PUMP MODIFICATION

- A. Measurement: Measurement shall be made on the basis of the percent complete of the task in accordance with approved plans and specifications.
- B. Payment: Payment will be made on the basis of the percent complete of the lump sum price stated in the bid. The price bid shall include all labor, materials, and equipment necessary to complete the task. The task shall include, but is not limited to, receiving and installing the new bowls and impellers for the pumps at the pumping station, piping, fitting, bolts, and accessories, removal of the existing the pumps, testing, operational setup, general cleanup, and surface restoration.

2.06 LAS PUMP INSPECTION AND MAINTENANCE CONTINGENCY

- A. Measurement: Measurement shall be made on the basis of the percent complete of the visual inspection of the pump as required in accordance with approved plans and specifications.
- B. Payment: Payment will be made on the basis of the percent complete of the lump sum price stated in the bid. The price bid shall include all labor, materials, and equipment necessary to complete the task. The task shall include, but is not limited to, visual inspection of existing conditions of mechanical seals, bearings, coupling, shaft alignment, lubrication, bolts, wiring, electrical components, and piping. This item is to cover unforeseen items that may be found during the removal and reinstallation process to ensure proper operation of the pumping station.

2.07 TRAFFIC CONTROL

- A. Measurement: Measurement shall be made on the basis of the percentage complete of the lump sum bid in accordance with the construction plans and bid items.
- B. Payment: Payment shall be made on the basis of the percentage complete of the lump sum price stated in the bid as determined by the project engineer. The lump sum shall include furnishing all labor, materials, and equipment necessary to complete the task. The task shall include, but is not limited to, the placing, moving, and maintenance of all signage, barricades, cones, barrels, flagging, flag men, and guide vehicles throughout the construction process to safely reroute traffic from existing traffic patterns. Traffic control shall be done in a manner to safely warn, reroute, and lead vehicles to their destination. Additional signage will be required if the engineer deems that the traffic control in place does not fully meet the required intent of the task. Changing of existing traffic patterns shall be communicated with the engineer no less than 48 hours prior to.

2.08 MOBILIZATION

- A. Payment: Payment will be made for the price as stated in the Contract once the Contractor has established his construction yard, and met the requirements established in the Contract Documents. Mobilization will be recognized as complete once the Contractor has provided a construction schedule and moved his equipment and a substantial amount of material to the job site. Construction must be underway and progressing. Payment for mobilization will be limited to a maximum amount not to exceed 5.0% of the bid price.

2.09 PUMP STATION COMPLETE

- A. Measurement: Measurement shall be made on the basis of the percentage completed item in accordance with the plans, specifications and bid documents.
- B. Payment: Payment will be made on the basis of the percent completion of the lump sum price stated in the bid. The price bid shall include all labor, materials, and equipment necessary to complete this item of work. The work shall include, but is not limited to, removal of piping, fittings and other existing infrastructure that will impede the installation of the proposed system, cleaning and removal of solids from the wet well, by-pass pumping, receiving and installing the pump station equipment (pumps, pump bases, pipe, pipe supports, control panel, level control, covers, miscellaneous hardware, connection hardware, electrical, telemetering), testing, operational setup, general cleanup, and surface restoration. Also includes, coating of the dry well (where the screen will be installed) and lining of the last manhole.

2.10 SCREEN COMPLETE

- A. Measurement: Measurement shall be made on the completed item of work in accordance with the plans, specifications and bid documents.
- B. Payment: Payment will be made at the lump sum stated in the bid. The price bid shall include furnishing all labor, materials, and equipment necessary to complete this item. Work shall include, but is not limited to, locating the manhole and wet well, excavation, connection to the existing manhole and wet well including any fittings required, manhole and wet well cored with boot (required), existing wet well modifications with necessary excavation, shoring and sheeting, dewatering, gravel bedding, castings, foundation, backfill, compaction, complete surface finish, and clean up, for the correct installation of the screen system, installing screen, bypass valve, water service, grouting, control panel, covers, miscellaneous hardware, connection hardware, electrical, testing, cleanup and surface restoration.

2.11 ELECTRICAL COMPLETE

- A. Measurement: Measurement shall be made on the completed item of work in accordance with the plans, specifications and bid documents.
- B. Payment: Payment will be made at the lump sum stated in the bid. The price bid shall include furnishing all labor, materials and equipment necessary to complete the task. The task shall include, but is not limited to, trenching, excavation, backfill compaction, conduit, fittings, joints, connections, pull boxes, wiring and electrical hardware, testing and start up, cleanup and surface restoration.

2.12 STANDBY POWER GENERATOR

- A. Measurement: Measurement shall be made on the completed item in accordance with the plans, specifications and bid documents.
- B. Payment: Payment will be made at the lump sum price stated in the bid. The lump sum price shall include furnishing and installing the new standby power generator including all labor, materials, and equipment to complete the installation. Price shall include, but is not limited to, forming, concrete, loading and unloading, controls, start-up and training, clean-up and restoration.

2.13 PROPANE TANK AND ACCESSORIES

- A. Measurement: Measurement shall be made on the completed item in accordance with the plans, specifications and bid documents.
- B. Payment: Payment will be made at the lump sum price stated in the bid. The lump price shall include furnishing all labor, materials, and equipment to complete the installation. Price shall include, but is not limited to, the installation of a propane tank and required accessories including connectors, fittings, valves, hoses, and pressure indicators.

2.14 FORCE MAIN

- A. Measurement: Measurement shall be made along the centerline of the pipe trench through fittings and specials with no deduction for such fittings and specials in accordance with the plans, specifications and bid documents.
- B. Payment: Payment will be made for each linear foot of PVC or DIP force main installed at the unit price stated in the bid. The unit price bid shall include all labor, materials, and equipment necessary to complete the installation, including, but not limited to, trenching, excavation, shoring and sheeting, dewatering, bedding, PVC or DIP pipe, connection to existing force main, backfill, compaction, testing at 150 psi and complete surface restoration.

2.15 FORCE MAIN CONNECTION TO EXISTING MANHOLE

- A. Measurement: Measurement shall be made on the basis of the complete connection in accordance with the plans, specifications and bid documents.

- B. Payment: Payment will be made at the lump sum stated in the bid. Work shall include furnishing all labor, materials and equipment necessary to complete the task. The price shall include but is not limited to, locating the receiving manhole, excavation, connection to the receiving manhole including any fittings required, blocking, excavation, trenching, backfill, compaction, shoring, sheeting, fittings, grouting, dewatering, bedding and preparation of the surface for stabilization.

2.16 AIR RELEASE VALVES

- A. Measurement: Measurement will be made on the basis of each unit installed in accordance with the plans, specifications and bid documents.
- B. Payment: Payment will be made at the unit price bid for each complete valve installation. Work shall include trenching, excavation, necessary shoring and sheeting, dewatering, furnishing and installing valves, backfill, compaction, complete surface restoration, cleanup, and testing.

2.17 PLUG VALVES

- A. Measurement: Measurement will be made on the basis of each unit installed in accordance with the plans, specifications and bid documents.
- B. Payment: Payment will be made at the unit price bid for each complete valve installation. Work shall include trenching, excavation, necessary shoring and sheeting, dewatering, furnishing and installing valves, backfill, compaction, complete surface restoration, cleanup, and testing.

2.18 STRUCTURE RELOCATION

- A. Measurement: Measurement shall be made on the basis of the lump sum of the items to be removed or relocated in accordance with the plans, specifications and bid documents.
- B. Payment: Payment will be made on the basis of the lump sum bid and the completion of the project. Partial payments will not be made. The project's completion will be determined by the engineer. Work shall include, but is not limited to, relocating existing structures to include mailboxes, signage, posts, and other structures that may impede construction, and includes the provision of temporary mailboxes throughout the construction process, and the replacement of damaged mailboxes or signs and posts, cleanup, and surface restoration.

2.19 CONCRETE DRIVEWAY AND PAVEMENT REMOVAL & REPLACEMENT

- A. Measurement: Measurement shall be made on the basis of each square yard of concrete driveway and pavement removed in accordance with the plans, specifications and bid documents.
- B. Payment: Payment will be made on the basis of the unit price stated in the bid. the work shall include, but is not limited to marking, cutting, and removal of pavement, concrete, or other material that exist and will not be used as part of this project, excavation, disposal at an approved site, backfill, compaction and surface restoration.

2.20 ENCASED FORCE MAIN

- A. Measurement: Measurement will be made based on the number of linear feet of steel cased bore installed to the lines and grade shown on the plans.
- B. Payment: Payment will be made for each linear foot of PVC force main with casing pipe installed at the unit price stated in the bid. The unit price bid shall include all labor, materials, and equipment necessary to complete the installation, including, but not limited to, excavation of the bore pit, trenching, shoring and sheeting, dewatering, bedding, PVC pipe, backfill, compaction, testing at 150 psi and complete surface restoration.

2.21 CHECK DAM

- A. Measurement: Measurement shall be made on the basis of each hay bale check dam placed at the locations shown on the plans and in accordance with "The Manual for Erosion and Sediment Control in Georgia".
- B. Payment: Payment will be made at the unit price bid. The unit price bid shall include all material, labor and equipment necessary to accomplish the task. Work shall include, but not be limited to, excavation, grading, furnishing and placing stone, gravel filler, hay, and geotextile filter blanket as shown on the plans. All check dam locations shall be approved by the Engineer prior to installation. No payment will be made for check dam installed without approval of Engineer.

END OF SECTION