Financial Management Department
Purchasing Division
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Email
April 4, 2017

TO: All Interested Bidders

SUBJECT: Invitation for Bid (IFB) 17-0819GC
Satellite Lift Station 2-D Rehabilitation and Emergency Back-up Pump

ADDENDUM 2

Bidders are hereby notified that this Addendum shall be acknowledged on page Bid Form-1 of the Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgment of the Addendum will be considered incomplete.

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

1. The address to the Satellite Lift Station (SLS) is 3820 9th Avenue West, Bradenton, Florida. Point of contact for coordination is Nick Wagner, Utilities Superintendent, 941-792-8811 Ext. 5377, nick.wagner@mymanatee.org.

2. **CLARIFICATION** of Bid Item No. 30: TCU & Fiberglass Enclosure (DFS), in Section 01150 Measurement and Payment on page 38 of the Technical Specifications:

   The Telemetry Control Unit (TCU) and fiberglass enclosure shall be from Data Flow Systems (DFS). The fiberglass enclosure shall be part number RJ1816HPL.

3. **CHANGE** Article 1.02.A, Ratings, in Section 11215 Diesel Backup Pump on page 165 of the Technical Specifications to read as follows:

   This pump is to have a primary capacity of 500 gpm at a TDH of 45 feet, with a maximum capacity of 150% the primary capacity. This site shall be diesel fueled with a sub-base fuel tank. This site is not in a flood zone and a flood certification is not required.

4. **CHANGE** Article 2.01.A, Pumps, in Section 02720 Sanitary Sewer Bypass Pumping on page 137 of the Technical Specifications to read as follows:

   A. Pumps:

      1. By-pass pumping system shall consist of at least a primary pump and a backup pump. Each pump shall have a minimum pumping capacity of 100% of the anticipated peak flows. When bypassing a pump station, 100% of the lift station capacity (G.P.M. & T.D.H) shall be provided.
      2. Both pumps shall be piped and wired to be fully operational to replace the function of the two submersible pumps removed from the lift station.
      3. Pumps shall be low noise or sound attenuated. The noise level at any operating condition, in any direction, shall not exceed 70dBA at a distance of twenty three (23) feet (7 meters) from the pump and/or power source.

5. **DELETE**: Plan Sheet 5 of 8 and **INSERT** revised sheet that is attached to this Addendum 2.

6. **ADD** the wiring diagram from UNITRON CONTROLS dated 1/9/2017, that is attached to this Addendum 2 for the lift station control panels.

The following questions have been presented by potential Bidders:

7. Question: Bid Item No. 30, page 138 of 194 of the referenced project calls for a DFS fiberglass enclosure. But drawing US-25A on sheet 7 of 8 of the project drawings notes it should be SS and powder coated white. Also that same drawing calls for hinges on the right side of the enclosure. For cost savings we bulk order and stock standard fiberglass and SS enclosures with hinges on the left. If right mounted hinges are really required, it will have to be a specially ordered which will increase cost. So just want to make sure if this is really desired before quoting it.

   Response: Yes, the hinges are to be on the right side of the enclosure. The fiberglass enclosure, J1816HPL, appears to be symmetrical, therefore the enclosures could be flipped 180 degrees prior to drilling the holes. The DFS enclosure shall be fiberglass. Please see item 2 above of this Addendum.

8. Question: Please confirm the lift station pipe size. Plans call out 6" on page 4 of 8 and 4" on the proposed detail on page 5 of 8.

   Response: The discharge piping for the lift station shall be 6". The plan sheet 5 has been revised.

9. Question: Please confirm the design shown on plans (500GPM at 45TDH) is current and correct for by-pass pump sizing

   Response: Yes, 500 gpm at 45 TDH is the current operating point and shall be used to select the appropriate by-pass pumping needs during construction. Per Section 02720, there shall be two by-pass pumps during construction. We will allow each temporary by-pass pump to provide 100% of the lift station GPM/TDH and have a low noise or sound attenuation, hospital grade. Both temporary pumps shall be piped and wired to work as two separate pumps like in the lift station submersibles.

10. Question: Please confirm permanent by-pass pump requirement that we are to provide a pump capable of 200% (CURRENT) design flow conditions.

    Response: The permanent emergency backup pump specifications have been revised to allow for 150% of the lift station design GPM/TDH. Please see item 4 above of this Addendum.

11. Question: Please confirm where the water service meter is on site for new RPZ backflow service to connect.

    Response: The existing and proposed meter is part of the above ground water service assembly. The proposed water service assembly shall be field located with County personnel.

12. Question: Existing tree over the site will need to be trimmed for electrical and RTU installation. Is this the responsibility of the homeowner or contractor? Also has the homeowner been notified of this?

    Response: The County is responsible for the installation of the new antenna. Any necessary tree trimming shall be performed by the County. As part of the Contract, Section 01580, the contractor shall be responsible for public notification.

13. Question: Where is the closest county facility that equipment can be stored during construction?

    Response: The closest County facility would be 66th St W. This facilities gates are closed and locked between 5 pm and 6:30 am.

14. Question: Is a ROW permit being paid & provided from Manatee Co for the driveway installation?

    Response: A ROW Use permit is required. The Contractor is responsible for obtaining the permit. There is no fee for the ROW Use permit

15. Question: How many Inverts are entering the wet well and what size(s)?

    Response: There is one influent pipe, 10" diameter.

16. Question: Regarding specifications on IFB 17-0819GC Section 11215, Part 1.02 A: Requests a maximum design capacity of double the primary capacity of 500 gpm. Should the pump design be based on this 200% increase or the 150% increase discussed in the meeting and what is the change to the TDH?

    Response: Please see item 3 above of this Addendum.

17. Question: Section 11215, Part 1.02 A note 7: Requests a pump enclosure designed for 140 mph wind load. There are (3) three permanently installed backup pumps in Manatee County that are not at this rating. Will this specification be reconsidered or discussed in further detail?

    Response: No. The specification has been revised since those installations. 140 mph wind load shall be used.

18. Question: Section 11215, Part 1.06 B note 2: Request for a Professional Engineer signed and sealed document supporting calculations. Is this necessary if the pump supplier is the manufacturer?

    Response: The supporting calculations and/or documents of the Emergency Backup Pump, can also be prepared by the pump manufacturer's personnel that is certified in pump design. Documentation of certification/qualification shall be provided on the pump manufacturer's letter head and signed by a duly authorized representative of the company.

19. Question: The plans supplied for the install of the diesel backup pump are vague. Will a detailed install plan be provided giving the exact designs of the suction and discharge connections? This is important in calculating the exact TDH the pump needs to achieve.

    Response: The piping/design shown of the plans is one possible install design. Because the exact TDH calculations are extremely important is why the design layout has been left flexible. The design of the suction and discharge piping are a part of the pumping system designed by the pump supplier. The pump calculation and proposed piping are to be completed by the pump designer to ensure the most efficient design and pump can be selected to meet the pumping needs. The requirements of NPSH is an important factor in pump design and all the pipe inside dimensions play an integral role in the calculations.

    The County is more than willing to supply any and all data, record drawings, etc for any information required for the design to the successful bidder.

20. Question: Regarding the precast concrete, will we be able to cast on site?

    Response: The riser section to be cast onsite is up to 12". All other heights shall be precast. The top slab shall be precast.

Bids will be received at Manatee County Purchasing, 1112 Manatee Avenue West, Suite 803, Bradenton, Florida 34205 until **April 10, 2017 at 2:00 P.M.**

Sincerely,

Melissa M. Wendel, CPPO
Purchasing Official

Attachments: Plans – SLS 2-D R&R and Pump – revised sheet 5
Unitron Controls Wiring Diagrams- 5 pages