THRASHER

COMPLEX PROJECTS
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**PEA RIDGE PUBLIC SERVICE DISTRICT**
**CABELL COUNTY, WEST VIRGINIA**

**CONTRACT #9 – LIFT STATION PUMPS & CONTROLS (VENDOR BID)**

**ADDENDUM #2**

**JULY 24, 2023**

**THRASHER PROJECT #020-1392**

TO WHOM IT MAY CONCERN:

The following are clarifications and responses to questions posed by Contractors for the above referenced project.

**A. GENERAL**

1. **The bid date has been moved. The new bid date is Thursday, August 3, 2023 at 2:00 pm.**
2. The last day for Questions will be COB Wednesday July 26, 2023.

**B. SPECIFICATIONS**

1. Section 333213 – Paragraph 2.5.E.1 **CHANGE** the paragraph to read "Lift Station shall be provided with a pump level system consisting of a surge protected level transducer and redundant back-up float switches. The vendor shall provide all necessary cabling and relays for the system to operate. The cabling shall be non-intrinsically safe (non-IS)."
2. Section 333213 – Paragraph 2.2.I.2. – **CHANGE** the design flow rate to 55 GPM.
3. Section 333213 - Paragraph 2.2.G.2 – **CHANGE** the design flow rate to 90 GPM.
4. Section 33213 – Paragraph 2.2.G.3 – **CHANGE** the total dynamic head to 90 feet.
5. Section 333213 – Paragraph 2.5.F – **ADD** the following at the end of the paragraph:

    b. One (1) 1P-15A circuit breaker for the Mission Communications RTU.

    2. Provide One (1) Veris Hawkeye H922 self-powered 0-5 volt current transformer for mounting on the load side of each pump.
    3. Provide the following normally open dry contacts for use by the Mission Communications RTU.
        a. Pump 1 seal failure
        b. Pump 1 high pump temperature
        c. Pump 2 seal failure

d. Pump 2 high pump temperature
e. Float High Water Alarm
f. Float Low Water Alarm
g. Pump 1 Current Monitor
h. Pump 2 Current Monitor
i. Utility power fault, under voltage/over voltage/phase loss/phase reversal as appropriate to each single phase or three phase site.

4. Provide the following surge protected 4-20 mA signal for use by the Mission Communications RTU, wet well level.
5. Provide one set of common spares. 10 of each size fuse and one of each relay used.

6. Section 333217 – Paragraph 2.3.B **CHANGE** the last sentence to read as follows: Pump operating conditions minimum 550 GPM at 175ft TDH through an 8-inch ductile iron discharge connection.

7. Section 333217 – Paragraph 2.1.E.1 **CHANGE** the paragraph to read "Lift Station shall be provided with a pump level system consisting of a surge protected level transducer and redundant back-up float switches. The vendor shall provide all necessary cabling and relays for the system to operate. The cabling shall be non-intrinsically safe (non-IS)."

8. Section 333217 – Paragraph 2.1.F – **ADD** the following at the end of the paragraph:

b. One (1) 1P-15A circuit breaker for the Mission Communications RTU.

2. Provide One (1) Veris Hawkeye H922 self-powered 0-5 volt current transformer for mounting on the load side of each pump.
3. Provide the following normally open dry contacts for use by the Mission Communications RTU.
   b. Pump 1 seal failure
   c. Pump 1 high pump temperature
   d. Pump 2 seal failure
   e. Pump 2 high pump temperature
   f. Float High Water Alarm
   g. Float Low Water Alarm
   h. Pump 1 Current Monitor
   i. Pump 2 Current Monitor
   j. Utility power fault, under voltage/over voltage/phase loss/phase reversal as appropriate to each single phase or three phase site.
4. Provide the following surge protected 4-20 mA signal for use by the Mission Communications RTU, wet well level.
5. Provide one set of common spares. 10 of each size fuse and one of each relay used.

9. Section 4732700 – Paragraph 2.3.D.8.a – **CHANGE** the paragraph to read "The VFDs shall include a provision for external communication to a higher-level system. Communication shall be via 2-wire RS-485 connection to the VFD. Communication shall be available as MODBUS RTU. The higher-level system shall be as described in the Control Panel subsection of Sections 333213 and 333217."

## C. DRAWINGS

NOT APPLICABLE.

## D. QUESTIONS AND RESPONSES

NOT APPLICABLE.

## E. CLARIFICATIONS

The following are the wet well depths and diameters of the pump stations:

| Pump Station | Depth | Diameter |
|---|---|---|
| A-2 | 16' – 8" | 10' – 0" |
| A-3 | 22' – 1" | 10' – 0" |
| A-4 | 24' – 0" | 5' – 0" |
| A-4G | 13' – 0" | 4' – 0" |
| A-5 | 23' – 0" | 6' – 0" |
| A-6 | 10' – 6" | 5' – 0" |
| A-7 | 30' – 0" | 8' – 0" |
| A-8 | 10' – 3 3/4" | 8' – 0" |
| A-9 | 18' – 6 1/2" | 5' – 0" |
| A-10 | 18' – 9" | 6' – 0" |
| A-11 | 20' – 8" | 8' – 0" |
| A-12 | 13' – 5 1/2" | 5' – 0" |
| A-13 | 21' – 7 1/2" | 5' – 0" |
| A-14 | 14' – 0" | 5' – 0" |
| A-15 | 18' – 1 3/16" | 5' – 0" |

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 2:00 p.m. on Thursday, August 3, 2023 at Pea Ridge Public Service District Operations Building, 500 Nova Street, Huntington, WV 25705. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.

JONATHAN CARPENTER REGISTERED 15425 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

JONATHAN CARPENTER, P.E.
Principal