ADDENDUM NO. 2

TOWN OF OLIVER SPRINGS, TENNESSEE
Sewer System Improvements
Contract III-A: Pump Stations 2 & 3
GRW Project No. 4397-11

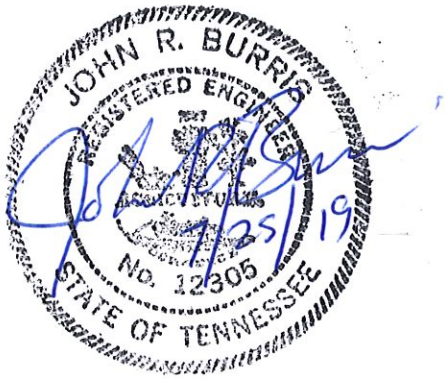
Bid Date – July 31, 2018 @ 2:00 P.M.

Date of Addendum: July 25, 2019

1. **DRAWINGS. Sheet C-101**
   Refer to Pump Station #3 Site Plan.

   Provide 6" Plug Valve at the outlet side of the New Flow Meter Assembly beyond the bypass piping connection.

2. **Requests for Information/Clarifications**:
   Refer to the attached RFI's:
   A. Site work Questions-Responses.
   B. Electrical Questions-Responses



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Site Work Questions-Responses:

1) In order to cut in the new valves and meters at the pump stations, how much time do we have and how much water will we need to contend with? *According to a resource at the town, during the daytime you might have 2 to 3 hours at PS No. 2 and about 1 to 2 hours at PS No. 3. Comment number 5 has some factors impacting this daytime operational response.*
2) Please refer to sheet C-101 – On the east side of #2 WW there is a circle with a P in it and appears to be a line that connects to the force main. Is this an old pump and force main connection? *There once was a wet pit/dry pit type station at the site. I would suspect this might be the abandoned dry pit element of the original assembly.*
3) Specifications say we must pay for temporary power. Does this also include electrical power for bypass pumping? *Yes on power or fuel.*
4) Please refer to sheet C-102 – Note 6 on the left and note 1 on the right appear to conflict. We assume new hatches go on the valve vault. *Note # I is valid. It results from Rural Development's review and their concern to flood proof the valve vault. Note No. 6 should only apply to the wet well hatches.*
5) A bypass pump supplier made a visit to the site today and was told by the Owner that there were three lines that go directly into the wet well at PS#3. We believe the documents show one. Please advise. *After talking to the town's staff about the specifics of PS No. 3, there are 2 gravity sewer lines entering the wet well and a force main connected directly to the wet well. One gravity line and the force main both route from across the creek to the wet well. We think a solution could divert the force main to the gravity line and then bypass pump out of the manhole on the other side of the creek. There is not a lot of flow from this source, so the storage requirement would be favorable. The other gravity line is associated with the onsite manhole, and this is a bigger drainage basin. Flow volumes could be larger resulting in shorter storage times, especially after a rainfall event.*
6) At the PS 2 site are the 3ea. 6" Flg x PE pipes between the Wetwell and Valve Vault being replaced? *Yes*
7) What quantity of sewage will we have to handle to dewater the force mains to cut in the flow meters? *Pump Sta. No.3's 6" diameter force main is approx. 2400 feet long with approx. 63 feet static head. PS No.2's 8" diameter force main is approx.. 3200 feet long with 56 feet static head.* Will we have to install line stops to accomplish this work? *This would appear to be a "Methods and/or Means" type question which we don't have a say. The Town will not care one way or the other if this matters.*

Electrical Questions-Responses:

1.It appears that the SPD and panel board are part of the control cabinet is this correct? yes

2. Should conduit and seal-offs be used under the control cabinet? Page E-105
If so, what size conduit? No, see cable gland detail same sheet

3. Who provides the SCADA unit? Or will it be attached to the control cabinet? Right now it comes with the control panel. I believe you were going to address if that is what the owner wants or do they want to buy and give to the contractor to install. That's why it's shown in its own enclosure currently, so it can go either way.

4. Will the VFDs be included in the control cabinet? Yes, that's why there is an enclosure air conditioner.

5. Will the generator and transfer switch be mount inside a building or shelter? Page E 101 appears to show a door at the ATS location. No it's an elevated platform

6. How tall should the elevated pad be for the generator? Refer to structural drawings

7. Will the magnetic flow meter be provided with the control cabinet? That's the intent

8. Will the level sensors be provided with control cabinet? yes

9. We worked on a similar project for Clinton Utility Board and they required a wiring trough to be attached to the back of the control cabinet. This was for the employees to be able to change a pump motor without the motor leads passing thru the seal offs. The motor leads are spliced in the trough and the seal offs are located between the trough and control cabinet. Will this be necessary? No because we are using separable cable glands that are rated for the hazard and venting the cavity under the panel, and mounting the panel bottom 18 inches minimum above the top slab.