

**CLARIFICATIONS TO
CONTRACT DOCUMENTS & TECHNICAL SPECIFICATIONS
J-26963
TRAVIS FIELD WRF
Event # 7169**

ADDENDUM NO. 5

July 3, 2019

GENERAL

This Addendum has been issued on behalf of the City of Savannah. The following information should be considered by prospective bidders in preparation of their proposals and are hereby incorporated into the Proposal Documents. Bidders shall be responsible for acknowledging receipt of this addendum in the Bid Form. Failure to do so will result in the bid being rejected by the Purchasing Director.

This addendum answers questions received by Friday June 28, 2019. All questions received after that time will be addressed in a separate addendum that will be issued at a later date.

PART I – CONTRACT DOCUMENTS

The Bid Documents shall be changed in the following respects:

Clarification

Due to the availability of service, parts, and training, the City of Savannah requesting that:

All mechanical /electrical equipment specified by manufacturer's name or model number in the construction documents shall be provided through the manufacturer's authorized sales representative for the territory that includes Savannah, Georgia.

Attachments:

Plans & Specification:

- a. *Revised SCADA Specification Section 25 50 00*
- b. *Revised Specification Section 00 11 30 – Bid Proposal*
- c. *Revised(highlighted) Electrical specification Section 26 29 23-Variable Frequency Drive Unit*
- d. *New Electrical Sheet- E16.0-MBR Control Circuits*
- e. *Revised Electrical Sheet -E0.4- One-line Diagram*
- f. *Revised SCADA P&ID Plans*
- g. *Appendix "F"*

Questions:

1. Please clarify the pipe size between the sludge feed pump and the belt press. Yard and Dewatering drawings are conflicting.

Response: *This was provided in Addendum No. 3*

2. Would it be acceptable to have the riser plate shop welded at both ends for the "Full Riser Plate", detailed on A5.5? This in lieu of welding on the top side and connecting with a self-tapping screw on the bottom side. Upon arrival to the field, these self-tapping screws often strip and/or come loose during shipping.

Response: *Shop welding is acceptable*

3. Please confirm whether sludge or other residual solids are contained in any of the structures to be demolished. If so, since there is no way to quantify for bid purposes, we request a unit rate be added to the bid form to remove and dispose of sludge / solids.

Response: *See revised Bid Schedule*

4. The crane rail canopy adjacent to the control building is to be designed by the PEMB contractor. After discussions with PEMB contractors, several of them do not design these buildings to support additional features such as a bridge crane and its potential loads. Could you please provide a framing plan to support this?

Response: *Please contact PEMB manufacturers who can supply design for canopy*

5. Waste Water Treatment applications typically utilize stainless steel ductwork in lieu of galvanized steel. The notes for the Air Distribution on plan page H001, indicates the use of galvanized steel with the exception of stainless steel to be used at the lab hood exhaust. Please verify the use of galvanized steel ductwork in this building.

Response: *Please install as noted on the plans*

6. Can you please provide the scope and name for the UV manufacturer that is providing the units for this project? We would like to be able to speak to them directly regarding questions we might have for installation.

Response: *Please see Appendix C- UV proposal*

7. Can you please provide the full scope and pricing for the SCADA contractor, Emerson? Between Emerson, MR Systems, and the controls for Kubota's MBR System, there is a good bit of coordination that we need to do.

Response: *Please see attached Appendix F for SCADA scope of material. Price proposal will be furnished in a following addendum.*

8. Please provide an acceptable manufacturer for the sludge pump.

Response: *Please see spec Section 31 23 19- section 12.0*

9. Please provide acceptable manufacturers names for the components that comprise the DO System. The performance specifications approach to providing the component necessary for a fully functional DO System make it difficult for a contractor to ensure that what we price will meet the Owner's expectations.

Response: *Please see spec Section 44 45 16.1 - Effluent Oxygenation System*

10. Can you provide greater detail on the existing influent pump station? The current configuration is quite different from what is depicted in the as-built drawings.

Response: *This is based on the last revision to the pump station in 2005. See Appendix G*

11. On sheet A1.2, The fume hood is detailed as having a built-in blower. In the specifications (115313-4 Sec 2.3 C) the fume hood is detailed as needing a butterfly damper. The type of air flow required needs to be verified. Also, would an external motorized system or an internal system be needed for the HVAC connection?

Response: *This was provided in Addendum No. 3*

12. On sheet A1.2, there is a 24"x30" pegboard w/ drip pan. Verify if it is made from epoxy or stainless steel.

Response: *The Pegboard shall be black epoxy*

13. On sheet A1.3, The breakroom has cabinets/countertops detailed but there was no corresponding specification. Should this area be included in the lab casework?

Response: *Due to small quantity for this area, this can be included in lab casework*

14. On sheet A1.3, For the breakroom cabinets the countertops are called out as laminate surface in View 3, but below in View 4 the countertops are epoxy resin work surface. Need verification on countertops being plastic laminate or epoxy resin surface.

Response: *Please provide epoxy resin surface*

15. Who provides the VFD's for the Influent Pump Station. They appear to be part of an MCC to be modified which would be done by an electrical contractor.

Response: *The VFD for the influent pumps are to be provided by the MCC vendor as shown on Sheet E1.0*

16. Does the pump manufacturer need to supply the VFD to the electrical contractor for inclusion in the modification of the existing VFD or was another arrangement intended?

Response: *No*

17. The Plant Drain Pump Station Local Control panel is on the electrical plan drawings E11.0 but not on the one line on the same drawing nor in the detail for the risers on the same drawing. It also appears that Emerson is to provide this panel in the P&ID but the schedule indicates Flygt. The specification mentions separate panels. It is not clear what is to be provided and what it is to connect to. Can the Local Control Panel be included

in the one line and P&ID? It currently just shows a connection to panel HN in the main electrical building noted on the plan drawing only.

Response: *The local control panel is shown on Sheet I-10 to be provided by Emerson. It does not need to be on the one-line diagram.*

18. For the EQ pump station control panel, the Local Control Panel is also not clear. Can an electrical plan be provided similar to M3.5 drawing showing the Panel location? And can that local control panel be included in the P&ID if a separate panel is required other than the Emerson SCADA panel as indicated in the specifications?

Response: *The requirements for these panels are shown on Sheet I-4. No other drawings are needed.*

19. We do not guarantee 3" spheres. However, we guarantee anything that is found in regular waste and that can be flushed.

Response: *Okay*

20. Influent PS: Cooling system calls out to check the VFD Duty but according to 33 32 20-8 it is calling out for soft starts instead of VFD since they are being taken out.

Response: *The existing VFDs are to be replaced with the new VFDs. The system now is being run with RVSS Starters in MCC. When complete, there will be VFDs with bypass RVSS for each influent pump.*

21. The bearing life for the N3171 shall be 50,000 hours along any useable portion of the curve. The 3306 indeed has 100,000 hours.

Response: *Okay*

22. We take exception to the cast iron cooling jacket for the N3171. Flygt midrange pump motor cooling jackets are made of stainless steel. The 3171 cooling system spec is the same as that of the 3202.

Response: *Ok to use S.S. cooling jacket*

23. The horizontal directionally drilled Force Main on drawing M12.0 going under the canal is shown with conflicting pipe sizes. Please clarify.

Response: *The HDPE pipe on M12.0 refers to outside diameter of the pipe. However, the inside diameter for the HDPE is 16". So, we are going from 14" PVC (existing pipe) to 16" HDPE under the canal and then back to 14" PVC. Normally, a HDPE reducer will be welded to each end of the line to change it back to normal PVC or D.I pipe size.*

24. Can the existing 12" Gate valve shown on M12.0 from Garden City be closed to complete the tie-in of the new 14" force main to the existing pipe?

Response: *Yes*

25. Per the detail on drawing M11.8 and Specification 32 31 18 - Section 2.01, the fence is to be 7' tall plus the 1' high barbed wire fence. On drawing C3.6, the fence is to be 6' tall plus the 1' barbed wire fence. Please confirm which height is to be provided?

Response: *The fence shall be 8 ft. plus 12" high barbed wire as shown on M11.8.*

26. Per drawing G1.2, the post locations for the 20' electrically operated gate are to be on the edge of the asphalt road. Is the intention of the entrance gate to cover the entire span of the 24' asphalt road? If so, a 26' electrically operated swing gate would need to be installed at the entrance instead of the 20' that is detailed. Please clarify which will be required?

Response: *A 20' electric gate is sufficient.*

27. The 14' gate location and the 20' gate location are shown on G1.2 but the manual gate isn't detailed on this drawing. Per the notes provided in the "swing gate detail" on drawing 11.8, the gate locations are to be shown on M1.1. Drawing M1.1 wasn't included in the Project Documents. Please provide drawing M1.1 and/or the location of the manual gate as detailed in section 1.01 of Specification 32 31 18. It is my assumption that the manual gate would be installed at the south side of the facility near the 24" Gate Valve and Future Connection.

Response: *The note should refer to G1.2 for gate location*

28. Could you please provide clarification on the current function/process throughout the existing pump station? Channel sequencing, Influent, etc. We are in the process of developing a by-pass pumping plan in order to install the 24" Force Main By-Pass Line, as well as the pump replacement, and would like to be aware of the most efficient location for suction and discharge. Also, would the existing 24" force main downstream of the existing pump station be able to be shut down for a period of time in order to make the necessary tie-ins and valve installation?

Response: *This station is a major city lift station and cannot be shut down. There are no gates or other means to control flow inside the wetwell. Influent gravity sewer and forcemains enter the wetwell from the west.*

29. Are the hatched areas in the concrete walls on M1.0 indicating demo or closing off?

Response: *They are meant to be close-off. Only the existing valve pit shall be removed as noted on the plan.*

30. Will the city be providing the 6" Water Meter and are there any fees the contractor is responsible for?

Response: *The City of Savannah will provide the water meter and waives all City fees for this project.*

31. As depicted on the Bid Documents, the prestressed tank subcontractors require a 15' working clearance around the tank at elevation 10.00'. As shown on the drawings, there is a portion of the existing influent pump discharge that impedes upon the required 15' working area that is at or above the 10.00' elevation. Please confirm that bidders are to plan on temporarily rerouting the line as required to not impede within the 15' required

tank clearance. Also, can the existing influent pump station be taken off line in order to accommodate this reroute?

Response: *We have contacted Crom during design. They have no issues with the existing piping location.*

32. Will R&M Materials Handling be considered an approved manufacturer for the Overhead Crane & Hoist (Spec 41 22 13)? R&M Materials Handling is part of the Konecranes Corporation's family of brands. See attached literature.

Response: *R&M Material Handling is approved manufacturer provided they meet the specifications*

33. Basis of Design McElroy-Metals Medallion is only approved down to a 3 in 12 slope and per the elevations roof slopes are too low. Please advise

Response: *Basis of design should be based on McElroy "MasterLok-90" with the slope of 1/4":12 and 24" cover width.*

34. Will Ultra Seam US 200 be considered an approved manufacturer for the Standing Seam Metal Roofing? See attached literature.

Response: *Ultra Seam Metal Roofing is acceptable manufacturer for metal roof, provided they meet specifications, warranty as specified in the specs.*

All other aspects of the project remain unchanged.

End of ADDENDUM NO.5