

**QUESTIONS AND ANSWERS NO. 2  
TO THE CONTRACT DOCUMENTS**

Date: December 5, 2023  
Project No.: 19W10160

**For the Construction of  
Hilliard N. Fletcher WRRF Phase II Improvements  
Tuscaloosa, Alabama**

**To All Plan holders and/or Prospective Bidders:**

Question No.	Specification Section	Drawing/ Detail Number	Question	Response	Addendum Information
2. 1.		11-S301	Plans say we are to replace Digester 1 seal per Manufacturer's recommendation. Do you know if they are aware of this and planning on supplying that info with their proposal?	The intent of the note on 11-S301 is not for the cover manufacturer to evaluate/assess the existing seal during their site visit. Instead, the note is intended to have the contractor to coordinate with the manufacturer to complete this replacement in accordance with their requirements. The base bid should include the effort to replace the digester seal in Digester No. 1 in accordance with Standard Detail D07 / 9200-001, with input and coordination with the cover manufacturer. This detail has been revised to further clarify this requirement.	Reference Addendum No. 2
2. 2.			Is the depth of the existing PD lines we are tying into known at the digester mixing pump locations? I believe they are deep.	The tie-in's shown on the yard piping drawings for each digester mixing pump is not into the tank drains. These tie-in's will be into the existing digester overflow piping, which is not as deep.  Elevations for these pipes can be approximated from the 1991 Improvements drawings (P-7, P-8, P-11A, and P-12). These drawings, along with other drawings, will be made available to bidders.	
2. 3.			Specs say we are to jet drain lines to first manhole at digesters. How about Sludge pump suction lines? Those are usually completely full of sand/solids after Owner finishes pulling down contents as much as possible.	Contractor will be required for flushing existing piping from/to equipment prior to placing the digester back into service. For each digester, this will include:  1) Digested sludge transfer piping, suction piping 2) Digested sludge transfer piping, suction piping 3) Sludge heating loop, suction piping 4) Sludge heating loop, discharge piping	Reference Addendum No. 2

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2. 4.			Will digester tops need to be leak tested before being put back into service? I would assume so because even if you don't want to leak test, tops have to be pressurized to confirm air/vac valve setting are correct. If leak testing is required and leaks are found, will contractor be responsible for fixing leaks? If test is required, will it be done before interior coating is applied? If testing is required, will Owner furnish water at no charge (that said, I believe the mixing system will require testing so water will be needed for that)?	<p>Prior to placing back into service, the Contractor will be required to fill the digester with water to complete the required functional testing for the digester mixing pumps, as specified. Leak testing of each digester will be completed in parallel with this effort.</p> <p>Any repairs to resolve leaks associated with the work not included in this project will be paid from the contingency allowance. Repairs to address leaks associated with work on this project including, but not limited to, digester cover seal, new cover penetration(s), digester mixing piping, and sludge transfer piping shall be at no additional cost to the Owner.</p> <p>Water required for testing will be provided by Owner.</p>	Reference Addendum No. 2
2. 5.			Digesters 2 and 3 are floating covers and have large concrete ballast blocks located against inside face of skirt. If these digesters require painting, will ballast block removal be required? They probably weight several tons/ea.	The ballast blocks will not be required to be removed. The intent of the protective coating system replacement is to rehabilitate the underside only of the cover, if needed. Any deviations or additional work necessary to remedy defects that are discovered during the assessments will be coordinated and paid from the contingency allowance.	
2. 6.			I expect there to be a good deal of sand/solids in the Aeration Basins after draining. Will Owner clean this out or will contract be responsible? If contractor is responsible, can sand be washed into the tank drains or will it need to be removed and disposed of?	There are no drains in the aeration basins. Any debris remaining in the aeration basins can be transferred to the opposite aeration basin using the existing sump pumps located at the east end of the basins. The Contractor is responsible for cleaning the basins, as needed, to complete the construction effort. These pumps may be utilized during this effort.	
2. 7.			Is a field office required or can we utilize an on-site room for meetings. If the city has a space to meet, it would be a waste of money to put this on-site for the project.	No field office will be required for this project. Project-related meetings will be held at the existing training room in the administration building or other location at the facility.	
2. 8.			Reference sheet 18. Can you provide the approximate elevations of the Wye connections to the drain line for each mixer pump?	Elevations for these pipes can be approximated from the 1991 Improvements drawings (P-7, P-8, P-11A, and P-12). These drawings, along with other drawings, will be made available to bidders.	
2. 9.			Do you have a Geotech report to help identify the groundwater/subsurface conditions?	No geotechnical investigation was completed for this project. A previous report that was prepared for borings in the vicinity of the disinfection facility will be made available to bidders.	

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2. 10.			What type of roof is on the existing blower building?	<p>Details of the existing roofing system are available in the 1991 Record Drawings. These details were not confirmed during design and are assumed to still be valid.</p> <p>During the design effort, Tuscaloosa provided the following contact as the person/company who had most recently worked on the roof at the Blower Building. Garver provided details of the project and developed the details to attach the pipe supports in such a way that it would not void the roof warranty.</p> <p><b>Bob Freeman</b>  Freeman Sheet Metal  <a href="mailto:freemansheetbob@bellsouth.net">freemansheetbob@bellsouth.net</a>  (205) 345-7782</p>	
2. 11.		40-X101	Sheet 095 Note 2 references spec section 01 73 80. I do not see this section.	Note to be modified to remove reference to Specification Section 01 73 80.	Reference Addendum No. 2
2. 12.		40-X102	Sheet 096 Note 3 References spec section 01 11 20. I do not see this section.	Note to be modified to remove reference to Specification Section 01 11 20.	Reference Addendum No. 2
2. 13.		40-S414	Sheet 114. I am confused on what pipe supports are type A, B, C and D. Can you clarify the quantity of each on the roof?	Drawing 40-S414 will be revised and reissued as part of Addendum No. 2 to further clarify the location of each pipe support type.	Reference Addendum No. 2
2. 14.			Sheet 115 and 116. The details for a Type B and C support appear to be the same.	Yes, they are similar. The only real difference is that for the Type B supports, the webs of the precast double tees are parallel to the air pipe, and for type C they are perpendicular to the air pipe.	
2. 15.			Will the City require a building permit for the work related to this project?	A building permit will not be required for this project.	
2. 16.		40-P102	Sheet 120 Note 1. Can you define this better for me. Maybe by elevation. (Ex. Everything below El. 165 gets insulated)	An aluminum insulated jacket is not required for ALP piping.	Reference Addendum No. 2
2. 17.	40 05 06	40-P303	Plan Sheet 40-P303 shows a 24" fabricated steel insulated coupling. Spec section 40 05 06, 2.11, D.2 calls for insulated couplings to be Dresser – Style 39 or RH Baker – Series 216. Please confirm that this spec is for this coupling and that coupling isn't restrained. Detail is a little confusing since it seems to show restraint rods bolted to ears on either side of coupling instead of bolting gland to gland.	Drawing 40-P303 will be revised and reissued as part of Addendum No. 2 to further clarify the requirement for the fabricated steel insulated coupling. This coupling is necessary due to dissimilar pipe materials and is to be provided with insulated joint harnesses.	Reference Addendum No. 2
2. 18.			If digester building roof isn't replaced, what should be done at removed pipe supports and exhaust fan?	In the event that the digester building roof isn't replaced, the Contractor will need to coordinate with a roofing contractor to patch any openings/gaps in the existing roofing system. These repairs would be considered to be temporary until the roofing system can be replaced, in its entirety, in a future project.	

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2. 19.			Detail D22/0529-003 isn't included in my typical details manual.		Reference Addendum No. 2
2. 20.			Won't some pipe supports be needed between digesters 1-3 and 4 for 12" DS lines? I don't see any.	Pipe supports are indicated on drawings 20-P301 and 20-P302. To further clarify these requirements, drawing 20-P101 will be revised and reissued as part of Addendum No. 2.	Reference Addendum No. 2
2. 21.	44 42 00		Will the City of Tuscaloosa WRRF plant staff analyze the eight samples required in Specification Section 44 42 00 3.5.B? Plant staff is analyzing the sludge samples during the dewatering & removal process and the testing should be the same.	Owner will provide testing/analysis of samples. Contractor/Manufacturer to provide all necessary equipment/material/items/etc. to collect samples in accordance with testing requirements. Samples are to be collected by the Contractor/Manufacturer in the presence of the Owner and Engineer.	

END OF QUESTIONS AND ANSWERS