

 <p>CLAYTON COUNTY <b>Water</b> AUTHORITY</p> <p>1600 Battle Creek Road, Morrow, GA 30260</p>	<b>Terry R. Hicks Water Production Plant Liquid Lime System</b>	
	<b>ADDENDUM # 2</b>	
	DATE	Thursday, October 28, 2021
	RFB NUMBER	2021-WP-07
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**QUESTIONS:**

- 1. Can I get a copy of any addenda that have been released to date?**

Answer: All issued addenda are posted on the project site on CivCastUSA.com

- 2. What is the estimated construction budget?**

Answer: The estimated construction budget will not be made publicly available prior to the opening of bids.

- 3. Can I get a copy of the updated planholder list?**

Answer: The running list of planholders is publicly available on the project site on CivCastUSA.com

- 4. Could you provide me with a list of Plan Holders for this Project?**

Answer: See response to question #3

- 5. Will you consider allowing Graco SoloTech peristaltic pumps to be approved for this upcoming bid?**

Answer: The lime feed pumps must conform to the Lime System Specification (11000). These feed pumps are part of the supplier’s scope and any proposed alternates must originate from the lime supplier directly. Approval of the pumps as “equal” to those specifically noted in the specifications will not be made prior to bid award.

- 6. E-01 General note 6, underground conduit to be PVC coated rigid steel. Would this include the pole lights shown on E-04 and defined in Note 17?**

Answer: Contractor may use regular PVC Sch. 40 elbows for site lighting underground conduits. Use PVC coated rigid steel elbows for all other underground elbows.

- 7. E-04 Notes 14 & 17 mentions relocating light poles. There is a statement on E-02 about “existing light pole to be demolished” and E-04 Note 21 mentions installing (2) poles which I assume are new based on the wording. Where do the relocated lights come into play? Need clarification.**

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Answer: Existing light pole indicated for demolition on drawing E-02 shall be removed and, if possible, be reused at one of the new locations shown on drawing E-04. The second new pole, shown on drawing E-04, shall be provided and installed by Contractor.

**8. E-04 note 21 & 23 and E-05 Light Fixture schedule. Is there any available information on the existing poles?**

Answer: Contractor shall select new poles and fixtures to match the existing poles.

**9. E-04 Note 10, reroute underground duct bank. Is this referring to the pole lights? If not, what is it referring to?**

Answer: The note is referring to all underground duct banks installed within the area affected by new construction.

**10. E-05 Note 9 mentions Tank Level Transmitters and Water Flow Meters 1 & 2 to be prewired by the Lime System Vendor. E-06 shows that wiring dotted and no mention of vendor. Are these to be wired by vendor or the electrical contractor.**

Answer: This shall be coordinated with the Lime System Supplier.

**11. Where are the Flow meters located? I do not see them on the drawings. – The flow meters should be a part of Lime System supply, but they were not included in the spec.**

Answer: The flow meters are included in the Liquid Lime System package. Their positioning shall be coordinated with the Lime System Supplier.

**12. E-05 Lime Fill Station Control Panel (FSP-1). Supplied and installed by vendor or installed by electrical contractor?**

Answer: Fill station control panel shall be supplied and installed by Contractor.

**13. How will new conduits enter the new Lime structure/building. Underneath through the slab or through the exterior walls?**

Answer: Conduit routing approach shall be coordinated with Liquid Lime System Supplier.

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- 14. E-02 Note 3, E-04 Note 8, and E-05 Note 2 all mention modifications. Will MR Systems be provided and installing all required components and wiring for this? Is this the scope of work being referenced in Volume 2 Technical Specifications Section 13000 1.01 C.?**

Answer: Contractor to coordinate scope with MR Systems (sole source).

- 15. E-04 has a statement about conduit penetration thru existing building wall “See structural wall penetration and link seal details”. What drawing can this detail be found on?**

Answer: See drawing DP-05, detail 8.

- 16. E-03 cable conduit schedule #2 shows (3) #3 & (1) #8 in 1” Conduit. E-06 Shows (3) #2 & (1) #8 in 1.25” conduit. E-04 Note 18 states 2” conduit. What size conductors and conduit are to be installed?**

Answer: Use (3) #3 & 1 #8 ground in 2” conduit.

- 17. During the pre-bid meeting there was a statement about pumps associated with the existing lime silo are to be demolished. I do not see any mention of this on the drawings. E-02 shows just a panel and conduit being demolished. Please clarify this scope of work.**

Answer: Contractor shall demolish all equipment associated with existing Lime Silo including tank, control panel, lime feed units, phosphate pumps, etc.

- 18. E-01 General note 6, all buried conduit to be concrete encased. Would this include the pole lights shown on E-04 and defined in Note 17?**

Answer: Conduits for pole lights do not have to be concrete encased.

- 19. E-08, Detail 8, Note 4 states that 2” rigid is required between LCP-1 and Main Treatment Plant. Is that not duct bank 1 (DB-1) shown on E-04 and E-05 which is concrete encased PVC 40?**

Answer: Use rigid conduit for exposed runs and PVC Sch. 40 for underground conduits.



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- 20. During the site pre-bid walk today, it was determined that most of the electrical conduits for power and control will be installed below grade and not overhead. E-01 General note 6, “underground conduit to be PVC coated rigid steel.” I am asking the same question that I asked about the lighting conduits. Do the conduits for the various devices that will be installed below grade need to be PVC coated rigid steel? If it is considered buried conduit and PVC is utilized do they need to be concrete encased?**

Answer: All underground conduits shall be PVC schedule 40 and shall have PVC coated rigid steel elbows (all except for lighting circuits which can have PVC schedule 40 elbows).

Underground conduits concrete encasement is only required under the roads and parking spaces.

- 21. We would also like to know if the county/R2T would be open to using an armored fiber cable run from the new lime system back to the control room? This would eliminate the need for conduit for most of the run, thus saving money by installing the fiber in the cable tray along the interior of the building.**

Answer: Approval of alternate approach relative to what is noted in the drawings and/or specifications will not be made prior to bid award.

- 22. Please provide the as-built drawings for the existing lime silo foundation.**

Answer: All available reference drawings have been posted to the project site on CivCastUSA.com as of the issuance of this addendum.

- 23. Please provide an allowance for the Building Permit and any other related costs.**

Answer: No allowance for permitting will be provided for this project.

- 24. With respect to the contract time, I am concerned that there is not enough time given within the documents to complete the project. According to the lime manufacture you are looking at 16-20 weeks for fabrication of the equipment. Knowing that you have another 30 days for shop drawing development and thirty (30) days for engineer’s review. These items alone**

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**would put you at two hundred (200) days before you even see that equipment delivered to the site. You still must erect the unit and install the equipment inside the silo's/metal building which could take a week or two. Then there is approx. 30-60 days for mechanical and electrical items to be complete thought out the plant. This is all prior to any start-up/training. After that, you would finally get to demo the old lime system & restoration of the site. In reviewing this, we are looking at a substantial of at least 300 days and a Final of 330 days. Please consider this and make the appropriate adjustments within the specification section 01011 of the bid documents.**

Answer: The number of days for Substantial and Final completion shall be revised to be 300 and 330 days respectively.

- 25. Under the General Condition's Article 5 - will the owner accept generator ship of any hazardous waste materials that found on-site?**

Answer: Responsibility for any hazardous waste materials encountered on site as part of this project shall be determined as outlined in Article 5 of the General Conditions.

- 26. On drawing C-02 you are asking the contractor to place a tree protection around an oak tree that is on top of a pipeline you are directing us to remove. So, which is it? Remove the pipe and tree to place a plug in the existing pipe or relocate the plug location north of the tree?**

Answer: Pipe demolition extent is revised and shall now extend 47 feet south from the MJ plug shown on Drawing C-02. Remainder of piping beyond this point is to be filled with flowable fill and abandoned in place. Current tree is to remain and be protected as shown in Drawings.

- 27. It is My understanding that the Lime System Manufacturer is designing the foundation and will have that with their scope package. On drawing S11, S12, S13 and details S21 & S22, clearly detail the foundation of the slab. So, who's drawings are we to use here? Please clarify.**

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Answer: The Liquid Lime System Supplier will NOT be designing the foundation. The Lime System Supplier will include what they refer to as a “Slab Plan” which details the location of lime system components (some of which are not provided in detail in the Contract Documents) in plan view. This plan does NOT constitute a foundation design. All secondary containment and equipment pad design was completed by Engineer and included in the Contract Documents. See Specification 11000 for further clarification of Lime System Supplier scope.

- 28. C-02 There is a conflict between the 36" waterline to be demolished and a tree that is to be saved. Please clarify.**

Answer: See response to Question #26

- 29. C-02 - Sheet C-02 states that the chemical trench should be removed while sheet C-04 states the chemical trench should be filled with flowable fill. Please clarify.**

Answer: Chemical trench to be filled with flowable fill.

- 30. C-02 - What is the depth of the existing chemical trench?**

Answer: See available reference drawings posted to CivCastUSA.com posted as of the issuance of this addendum.

- 31. C-05 - Sheet C-05, Note 6 says to adjust the tops of all existing storm structures to final grade. Please clarify to which structures this note applies.**

Answer: No existing storm structures in the work area shall remain. Note shall be deleted in conformed drawing set.

- 32. C-07 - Sheet C-07, Note 1, Will a concrete washdown area be required?**

Answer: Yes, it is the Contractor’s responsibility to provide for necessary washdown. Washdown location to be coordinated with Owner. All residual materials from washdown shall be removed from the site at Contractor’s expense.

- 33. S-01, 05095 - Sheet S-01 Note 2.7 & 05095-3.01.B- Will concrete imaging be required before coring into existing concrete or masonry?**

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Answer: Yes.

**34. 05095 - 1.03.B.1.c- Will adhesive anchor installer certifications be required?**

Answer: Yes.

**35. 05500 - 2.09.B- Will an independent testing agency be required to test and inspect hot dip galvanized fabricated items?**

Answer: Yes.

**36. 05524 - 1.04. A- Will the contractor be required to retain the services of a professional engineer to design the handrail?**

Answer: Yes, shop drawings will be required to be signed and sealed by a GA Professional Engineer. Calculations should also be signed and sealed by a GA Professional Engineer where the PE has designed the components and connections themselves. Where calculations are substituted with certificates of materials and mechanical connections through certified independent laboratory test results, only drawings will be required to be signed and sealed by the GA PE.

**37. 05524 & 05530 - 1.07. E & 1.04.D, respectively- Will the contractor be required to provide certification of the appropriate material and mechanical requirements or certified independent laboratory test results for the aluminum handrail and grating?**

Answer: Yes, these documents are required. Per Specification 05524 Paragraph 1.06, B load test data can be submitted in lieu of calculations that are signed and sealed by a GA Professional Engineer for the aluminum handrail.

**38. 09901 - 3.05.A- Will the contractor be required to provide a manufacturer's certificate of proper installation for the coating on the tanks?**

Answer: Yes. Manufacturer's certificate will be required.

**39. 01055 - Is construction surveying to be paid for under the allowance or will the contractor be required to hire a surveyor as part of the base bid?**

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Answer: Any surveying or staking required for the Contractor to successfully complete the Work shall be included as part of the Base Bid. Any surveying required for Construction VERIFICATION is to be paid using the specified allowance and is to be performed at the sole discretion of the Engineer or Owner.

**40. 13000 - 1.01.D states that an allowance has been provided for MR Systems' scope of work, but no allowance seems to be included in the bid form**

Answer: This last sentence of paragraph 1.01D in Specification 13000 shall be removed from the specification. No allowance for MR Systems' scope of work is provided. The cost associated with MR Systems' scope should be included in Bidders Base Bid.

**41. 01450 - 1.04.A- What is the main seismic force resisting system and what is the contractor required to submit, if anything?**

Answer: Seismic-Force-Resisting System for the tanks are assumed to be Flat-Bottom Ground-Supported Tanks, Steel, Mechanically Anchored (Note 2 on Dwg S-11). Seismic-Force-Resisting System for the equipment building is assumed to be Light-Frame Walls with Shear Panels of All Other Materials (Note 3 on Dwg S-11). Seismic-Force-Resisting System for the secondary containment (concrete foundation) is considered to be Flat-Bottom Ground Supported Tank, Reinforced Concrete, Reinforced Nonsliding Base (Note 1.10.8 on Dwg S-01).

Per Specification 01450 Paragraph 1.04, A, the Statement of Special Inspections (Supplement to 01450) outlines which structures require the Contractor's Statement of Responsibility. The Statement of Special Inspections does not require the Contractor's Statement of Responsibility for this project. However, the Fabricator's Certificate of Compliance (Specification 01450 Paragraph 1.04, C) is still required to be submitted for the tanks and equipment building.

**42. 01450 - 1.05.C- Please confirm the Owner will pay for all inspections as listed in the schedule of special inspections services, as required for this project.**

Answer: This is correct.

**43. S-02 - 6.9 - Will the contractor be required to place a 3" mud mat on the site if the subgrade is left exposed for more than 24 hours?**

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Answer: No. Note 6.9 will be revised as “Take necessary precautions to assure bearing surfaces do not become saturated or dried out.”

**44. 01450 - For bolted connections, will the connections be inspected by R2T or will a third party inspector be required?**

Answer: Bolted connections will be required to be inspected by the Owner’s furnished Special Inspector contracted as within R2T’s service agreement.

**45. 01540 - 1.03 Will the Contractor be required to maintain entry control?**

Answer: An independent, secondary access point will be made available to the Contractor for the Contractor’s use as to not interfere with normal plant operations and associated access through the plant’s main gate. Contractor shall be responsible for security and entry control of this secondary access point. Contractor may utilize primary entrance when deemed necessary due to accessibility limitations associated with secondary access route on a case by case basis. Contractor will NOT be required to maintain entry control of primary access point/gate.

**46. 01540 - 1.07.B.6- Will the Contractor be required to have all items listed in this section including a stretcher onsite at all times?**

Answer: As stated in the specification, Contractor shall be required to have onsite, at all times, all applicable items as deemed necessary by Contractor’s health & safety program as well as all applicable federal, state, and local safety regulations and guidelines.

**47. 03310 - 1.06.A- Will the concrete plant be required to have NRMCA certification or will GDOT certification suffice?**

Answer: GDOT certification will suffice.

**48. 03310 - 3.15 Will the contractor be required to comply with this section**

Answer: Yes. Contractor must comply with this section.

**CLARIFICATIONS/REVISIONS:**

**1. Specification 11000 LIQUID LIME SYSTEM**

Replace the first sentence of 1.02,A,2 in its entirety with the following:

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“Shop drawings for lime slurry tanks (liquid lime tanks), equipment building and associated accessories:”

**2. Specification 11000 LIQUID LIME SYSTEM**

Replace 1.02,B,7 in its entirety with the following:

“Calculations: Provide design calculations and clearly define loads, tank and equipment building geometry, steel strength, concrete strength and connection design for tank, equipment building and ladder. Calculations will be reviewed by Engineer for conformance with design criteria and design intent only”

**3. Specification 11000 LIQUID LIME SYSTEM**

Replace 2.04,C,1 in its entirety with the following:

“Structural Performance of Tank and Ladder: Design, analyze and detail tank and ladder including components, welds, connections and lugs in accordance with the design requirements provided on the Drawings and herein. Tank and ladder including components, welds, connections and lugs shall be designed and detailed by a qualified structural engineer licensed as a structural engineer (SE) in the State of Georgia.”

**4. Specification 11000 LIQUID LIME SYSTEM**

Replace 2.04,C,3 in its entirety with the following:

“Shop drawings and calculations shall be sealed, signed and dated by the qualified structural engineer licensed as a structural engineer (SE) in the State of Georgia. A licensed professional engineer (PE) will not be accepted.”

**5. Specification 11000 LIQUID LIME SYSTEM**

Add the following to article 2.05 Equipment Building:

“H. Structural Design Requirements:

1. Structural Performance of Equipment Building: Design, analyze and detail building including components, welds, connections and lugs in accordance with the design requirements provided on the Drawings and herein. Building including components, welds, connections and lugs shall be designed and detailed by a qualified structural engineer licensed as a structural engineer (SE) in the State of Georgia.
2. Structural Engineer Qualifications: Structural Engineer, who is experienced in the design of buildings having designed a minimum of 5 projects with similar conditions, size and scope within the past 5 years.

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3. Shop drawings and calculations shall be sealed, signed and dated by the qualified structural engineer licensed as a structural engineer (SE) in the State of Georgia. A licensed professional engineer (PE) will not be accepted."

**6. Specification 11000 LIQUID LIME SYSTEM**

Under the item labeled "WORK NOT PERFORMED BY LIME SYSTEM SUPPLIER AND TO BE PERFORMED BY GENERAL CONTRACTOR.":

Delete Paragraph N on page 18 in its entirety.

**7. Specification 11000 LIQUID LIME SYSTEM**

Add the following article to Part 2 Products:

"2.14 TANK AND BUILDING ANCHORAGE:

A. Design, analyze and detail tank and building anchorage including anchor embedment in accordance with the design requirements provided on the Drawings and herein. Tank and building anchorage including anchor embedment shall be designed and detailed by a structural engineer licensed as a structural engineer (SE) in the State of Georgia, who is experienced in the design of tanks having designed a minimum of 5 projects with similar conditions, size and scope within the past 5 years. Provide shop drawings and calculations, which shall be sealed, signed and dated by the qualified structural engineer licensed as a structural engineer (SE) in the State of Georgia. The structural design criteria shall be in accordance with the 2018 International Building Code and referenced codes and standards therein, 2020 State of Georgia Amendments, Appendix D of ACI 318, OSHA, the criteria herein and on the Drawings (including wind and seismic), and a seismic component Importance Factor of 1.0. Anchorage design shall consider buoyancy of an empty tank while the containment area is filled with liquid lime to the top of the containment wall should the adjacent tank leak."

**8. DRAWING DP-03**

As a point of clarification, as indicated in note on Drawing DP-03, Contractor is required to demolish all existing lime piping/tubing from the site upon startup and approval of the proposed Liquid Lime System. As noted on Drawing DP-03, Contractor must affix all tubing and/or carrier piping associated with new chemical feed lines to the existing tray after demolition of existing lime feed lines/piping.