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ADDENDUM No. ONE

Date: November 27, 2024

Project: Rincon WWTP Expansion, MES No.2020-10

Engineer: M.E. Sack Engineering
Hinesville, Georgia

The original plans, specifications, and bid documents are amended to include the following:

Bid Document:

- Replace the previous Invitation for Bids (p.1) with the attached of the same. Note the bid date, time, and location have been changed.

Plans:

- Replace the previous System Riser Diagram on Sheet **E11** with the linked of the same. Note the System riser diagram was revised to add more detail.
 - Modification summary:
 - It is shown that PDC is connected to SCC using Modbus RTU protocol.
 - LCP feeds discrete low-level sensor.
 - A note was added that reads: Provide interconnections and required signals for equipment provided. See Specification 15010.
 - <https://filshare.mesack.com/dl/VUZ7d4jH12>
- Replace the previous Sheets **M5**, **M10**, and **M11** with the linked of the same. Note the drainage details for SBR tanks 3 and 4 were revised.
 - Modification notes:
 - Drain will go through the wall of the tank as close to the bottom as possible.
 - The existing wall has reinforcing at 8" o.c. vertical and reinforcing at 12" o.c. horizontal. The drain line will be 6", so the contractor must locate the rebar and get the drain line in without any rebar cutting. See wall penetration details on sheet 3S-3 of the structural plans.
 - <https://filshare.mesack.com/dl/bhbSKUWwds>

Specifications:

- Replace the previous specification **15570** SBR Equipment with the linked of the same.
 - Modification notes:
 - The total number of blowers for the digester shall be 3.
 - Updates to the materials of construction of the retrievable fine bubble air diffuser (Section 2.20A)
 - The specified pressure transducer is no longer available. The direct replacement is Keller Levelrat (Sections 2.25, 2.35 and 2.45)
 - 3 HP digester sludge transfer pump is sufficient to meet process needs (Section 2.44)
 - https://filshare.mesack.com/dl/O12EBMNBjp/15570_SBR_Equipment_Rev.pdf

- Replace the previous specification **15561** Steel Tank Tertiary Filter Pile Cloth with the linked of the same.
 - Modification notes:
 - The drive assembly AGMA class requires a 3/4 HP drive motor in lieu of 1/2 HP (Section 2.04)
 - The manually operated recirculation ball valve shall be 3" in lieu of 2" (Section 2.09A)
 - The specified filter model only has two 2" backwash valves in lieu of three (Section 2.10A)
 - CompactLogix 1769 is the new standard PLC in lieu of MicroLogix 1400. MicroLogix is being phased out by Allen Bradley (Section 2.37)
 - https://filshare.mesack.com/dl/rLquINKTIZ/15561_Disk_Filters_Rev.pdf

- Replace the previous specification **15513** Shaftless Screw Loadout Conveyor with the linked of the same. Note the pivoting sludge conveyor has been specified.
 - <https://filshare.mesack.com/dl/TXRirotINQ>

- Replace the previous specification **15205** Reject Pump Station with the linked of the same. Note pump station requirements have been revised.
 - https://filshare.mesack.com/dl/rGQpRjayTm/15513_Shaftless_Screw_Loadout_conveyor.pdf

The following clarifications are offered for questions received:

1. *Refer to E4: What voltage is required to power the seven air control valves, and from which panel?*
 - Coordinate air valve connections and voltages with the SBR equipment provider. See spec 15570-2.23 and Riser Diagram 2/E-7.

2. *Refer to E5; Notes 16 and 17 are missing descriptions.*
 - Note 16 to read: 16. See detail 2/E1B for disconnect switch monitoring.
 - Note 17 to read: 17. See detail 8/E1A for receptacles at SBR tanks.



3. *Lighting fixture schedule. Is it OK bidding this job if we can supply equals in output and likeliness?*
 - We have no problem with substitutions as long as the proposal is submitted for **prior approval**, as noted in **Note LF-1**. If the submission is on time and is approved, we'll add their information in an addendum.
4. *Referring to specification 15214 Influent Pump. Should each Pump be sized for 1 MG or 2 MGD.*
 - Each pump must have a capacity of 1,390 GPM (2 MGD).
5. *The FFE on the structural plans for the Blower, Chemical, and MCC buildings reads 24'-6", but the grading plan reads 25'-0" for the Blower and MCC buildings and 26'-0" for the Chemical Building. Which ones are the correct elevations?*
 - **Sheets 4S-2 and 4S-4 / Blower Building** T/SLAB elevation 25'-0" AND T/CMU elevation 37'-8".
 - **Sheets 8S-2 and 8S-4 / Chemical Building** T/SLAB elevation 26'-0" AND T/CMU elevation 46'-0".
 - **Sheets 9S-2 and 8S-4 / MCC Building** T/SLAB elevation 25'-0" AND T/CMU elevation 37'-8".
6. *Will BABA (Build America Buy America) be required as stated in the specifications?*
 - After checking with the grant administrators, BABA will not be required.
7. *Can you confirm if this project is AIS & Davis-Bacon applicable?*
 - This project is Davis-Bacon applicable. AIS is encouraged.
8. *Do we know how much sludge should be removed from the reject pond?*
 - We are sludge judging the pond and will provide an estimate in subsequent addendums.
9. *Is the pond currently lined? And what type of lining will be required?*
 - The pond is currently lined with approximately 65,000 sq ft of 60-mil HDPE line. Clay Bentonite Liner is required for this project; a HDPE line would be considered as an alternative but since the future water storage will be reuse, it is considered unnecessary.
10. *Will there be any delay before construction if the bid price is higher than expected?*
 - If the bid price is higher than expected, the scope of work will need to be revised. However, no long delays are expected.
11. *What are we going to do with the sludge? Is it needed to be recycled internally, or will it be dewatered and hauled off-site?*
 - Sludge shall be dewatered and be hauled off-site.

12. Refer to Sections 13300 -13600. Please confirm if sections 13000 are applicable to the UV?
- Yes, control sections 13300 to 13600 apply to every system of the project.
13. Refer to Section 15010 paragraph 2.02.J.9 states that electrical supply to the System Control Center will be 120V 60Hz, 0.15 VA, but in sheet E11 of the plan set shows that the UV system SCC requires 1.44kVA. Can the correct electrical supply be confirmed?
- The electrical supply to the System Control Center needs to be 120V, 60Hz, 1.44 kVA.
14. Refer to Section 15010 paragraph 2.02.L.1-f states that monitoring system will be enclosed in fiberglass Type 4X wall mounted panel. Is 4X SST acceptable?
- Yes, it is acceptable.
15. Refer to Section 15010 paragraph 2.02.L.1.h. Can SCADA protocol of Ethernet/IP be confirmed?
- Protocols used in this project for SCADA are included in section 13500 paragraph 2.15.3.
16. Refer to Section 15010 paragraph 2.02 L.1.h mentioned a SCADA output consisting of Allen Bradley PLC. What is the intended use of the output?
- This output is intended to drive Allen Bradley PLC requirement.
17. Refer to Section 15010 paragraph 2.02.C.1 mentioned that each UV module will consist of four (4) UV lamps, but in section 1.05 C.2 it reads eight (8) UV lamps per module. Can the number of lamps be confirmed?
- The correct number of lamps per UV module is eight (8) and four (4) lamp modules per bank.
18. Refer to Section 15010 paragraph 2.02.H.1. Can it be confirmed that the effluent level controller is existing as stated elsewhere?
- Yes, it exists, and it is currently installed.
19. Refer to Section 15010 paragraph 3.05, please confirm if contractor is responsible for local laboratory costs and coordination.
- Yes, the contractor is responsible for local laboratory costs and coordination and the supplier will provide procedure and compile results.
20. The specifications book does not specify the pivoting sludge conveyor.
- This addendum replaces the previous spec 15513
21. On G-5, there are places in which the piping callout specifies one dimension and the line pattern specifies another (e.g. the DIP run from the reject PS wetwell to the existing MBR digester). Please specify which dimension to follow.
- Piping callout should read 10" DI Pipe.

22. Please provide a copy of geotechnical report, if available.

- The geotechnical report for the headworks area is provided in the link below. Soils are consistent throughout the site. However, a registered geotechnical engineer shall verify actual conditions before construction.
- https://filshare.mesack.com/dl/JMH6RgnIbE/ES165050_Rincon_WWTP.PDF

23. Can surplus excavated material be disposed of on-site?

- An area on site has been designated to pile up the surplus material. 6,500 cu yd are estimated to be generated, the area cannot exceed 100 ft x 100 ft, surrounded by a double silt fence on the downhill side.

24. On M-7, there is a 12" Manual Plug Valve shown on the SBR effluent line out of Basin #4, but it is shown on a 16" pipe. Should the pipe be 12", or should the valve be 16"?

- Callout should read 16" Manual Plug Valve.

25. Is the digester influent piping on M-7 3" or 4"? The pipe is noted as 3" on M-7 with callouts indicating 4" later down the line, but no reducer is shown. The schedule on M-4 calls it as 4" line. Additionally, section E-E' calls the yard FM as PVC, while other drawings show it as DIP. Which material should be used?

- The digester effluent line shall be 4" DIP, including 4" plug valve and 4" check valve. The digester influent shall be 3" DIP.

26. On M-12, the SS air pipe from the blower building into the digester basins is noted as 4". In the isometric diagram, it's noted as 6". Which dimension should be used?

- The correct size is 4" pipe.

27. On M-12, the air pipe from the blowers to SBR Basins 3 and 4 is noted as 12" in the notes and isometric, but shown as 10". It connects into 10" piping in the blower building with no reducer shown. What dimension should be used?

- The line pattern should read 12", the line is reduced after the first retrievable fine bubble diffuser.

28. Specification 01150 Section 2.08B calls for the installation of the septage receiving station equipment. Can you please provide a specification, if the contractor is to supply any process equipment for the septage receiving station (Beyond the piping and accessories shown on M1.)?

- No additional equipment is required besides the piping and accessories.

29. Specification 01150 Section 2.10B and drawing M23 call for install of chemical storage tanks (Alum and Caustic). Can you please provide a specification for the FRP Tanks?

- Specifications for the FRP tanks can be found in the Spec 15280 Chemical Feed System.

30. *Specification 15010 appears to call for a new System Control Center (SCC), Hydraulic System Center (HSC), and Effluent Level Controller/Level Control Fixed Weir. M19 appears to have these as existing to remain with new Power Distribution Centers (PDC). Please advise if the existing System Control Center (SCC), Hydraulic System Center (HSC), and/or Effluent Level Controller/Level Control Fixed Weir are to be replaced with new?*
- Please refer to sections E2 and E6 of the plan set for details.
31. *Specification 15205 calls for the Reject Pump Station to be one complete, factory-built assembly (automatic pumping station, fiberglass pump chamber) with supporting floor plate. M18 & 6S-2 appear to call for a cast-in-place pump station with two simplex pumps. Also, Section 2.01E calls for a hoist to be supplied by Others. M18 does not show a hoist. And M18 appears to call for standard submersible pumps with a Lifting Systems (Chains, cable holders/hangers, & guide rails.). Specification 15205 does not give much detail on these components. Can you please advise on the requirements of the pump station?*
- The pump station is a cast-in-place structure with two submersible pumps as shown in sheets M18 & 6S-2 of the plan set. This addendum replaces the previous spec 15205
32. *Specification 15214 Section 2.11D calls for “crane-ways, hoist beams, eye bolts or other adequate facilities for servicing or removal of pumps.” M7 does not show any “hoisting” equipment. Can you please provide a hoist/crane detail and manufacturer, if the Contractor is to provide a hoist/crane?*
- Section 2.11 D of the specification 15214 does not apply to the project.
33. *Specification 15301 does not provide any approved/listed gate manufacturers. Can you please provide a list of approved gate manufacturers? Can you please provide a Gate Schedule for Specification 15301 (Aluminum Sluice Gates and Aluminum Stop/Slide Gates)?*
- This project only considers the use of two 2 ft Sluice Gates at the Headworks Bypass channel.
 - The approved manufacturers are Fontaine Aquanox and Orbinox.
34. *Can you please confirm the ¼” Sump Pump at the Tertiary Filters, on M17, is existing to remain? If not, can you please provide a specification?*
- The pump is existing to remain.
35. *Please confirm Section 13100 – Pre-Engineered Metal Buildings and Section 13601 –Prefabricated Buildings are applicable to this job.*
- Section 13100 and section 13601 are not applicable to this job.
36. *Please confirm that all FRP doors are to get a Hollow Metal frame per schedules on pages 4S-4, 7S-7, 8S-3, and 9S-4.*
- Yes, all FRP doors shall get Hollow Metal Frame as noted in plans.

37. Please provide Material Schedules and Painting Schedules as referenced in spec section 09900.
- The intent of specification 09900 is to define characteristics of the products and application requirements, product handling, and testing. The paint products are specified in the drawings and the finished schedules are included on sheets 4S-4, 4S-6, 7S-7, 8S-3, 8S-6, 9S-4, and 9S-6.
38. Please confirm Roof Truss material at each building. The Blower, Belt Press, and MCC Buildings note Pre-Engineered Metal Trusses on the roof framing plans, but ridge detail 368 shows wood. Chemical Building notes Wood Trusses on the roof framing plan, but Metal Trusses on the building sections.
- The blower, belt press, MCC buildings, and chemical building trusses shall be pre-engineering metal.
39. Please provide sizes for Access Hatches at the EQ Valve Vault on 5S-1 and the EQ Platform on 5S-2.
- Post EQ platform requires two 3.50 ft x 8.50 ft hatches with safety grate
 - Post EQ Valve vault requires a 3.50 ft x 6.50 ft hatch w/safety grate.
40. Specification 15570 Section 2.50A calls for Digesters Mixers to have a 10 HP motor. However, section 2.51A calls for a 15 HP motor. Can you please confirm the motor HP is 10?
- Specification 15570 Section 2.51A should read 10 HP.
41. Refer to drawing sheet E-6 calls, the blower HP do not match the specifications. Can you clarify the correct HP?
- The SBR blowers shall be five (5) 60 HP; the digester blower shall be three (3) 30 HP; the post-EQ blower shall be two (2) 10 HP.
42. The SBR drawings call for each of the Submersible Pumps (Sludge Wasting Pumps, Sludge Transfer Pumps, etc..) that are supplied by the SBR Manufacturer to have a Pump Local Control Panel. This local panel does not appear to be included in the SBR Specification 15570. Can you please provide a controls section for these pump local control panels in the SBR specification, or provide details?
- Please refer to sections E1 and E5 of the plan set for details.
43. The SBR structures on sheets 2S-1 and 3S-2 are calling for Sherwin-Williams Dura-Plate 6100. Is PPG Raven 405 100% solids ultra-high build epoxy topcoat accepted as an "equal" to this product?
- The PPG Raven 405 is accepted as equal.
44. Can be the Special - Lite AF-200 ALL FIBERGLASS Doors and AF-150 ALL FIBERGLASS Frames be considered as approved product on Section 08342?
- Special-Lite AF-200 All Fiberglass Doors and AF-150 All Fiberglass Frames are approved product.

45. *Is all air piping (interior and exterior) to be insulated with 3" insulation?*
- Just exterior piping shall be insulated.
46. *M9 and M18 are calling for a PVC liner "per specifications," but the specifications don't seem to list any product for this. Is Raven 405 can get approved for this application?*
- The PPG Raven 405 is accepted as product for this application.
47. *What type of material should the new stair and platform be at the new Tertiary Filter on drawing M17?*
- Galvanized steel, with aluminum railing.
 - The As built of the existing stairs and platform is provided with the link:
https://filshare.mesack.com/dl/nx0hWW7wpS/Tertiary_Filter_Asbuilt.pdf
48. *Can you provide structural details for the belt filter press catwalk?*
- The belt press catwalk will not be necessary anymore; please disregard this item.
49. *Should the Post-EQ work on page M16 be included in the SBR Bid Item?*
- Yes, it shall be included in the Complete SBR System-Based Treatment Plant line item.
50. *Is the contractor to provide the new dumpsters shown on page M20?*
- No, the contractor will not provide a new dumpster.
51. *Can you provide as-builts for the existing splitter box to be demolished?*
- The splitter box will not be demolished. The line that goes to the clarifier shall be gated at the splitter box and then the line shall be cut and filled with grout
 - The As built of the existing splitter box is provided with the link:
https://filshare.mesack.com/dl/tRetW1S7eS/Splitter_box_Asbuilt.pdf
52. *Is the new retaining wall on page G3 supposed to be CMU or Cast-In-Place?*
- It is required to be Cast-In-Place.
53. *Can you provide a make and model for the proposed davit crane on page M19?*
- Davit Crane Thern 5PT30J with WS38-60DS wire rope or approved equal.
54. *Is the intent for the generator manufacturer to design and supply the working platform around the generator?*
- No, is the intent that contractor supply the working platform around the generator as required by the generator manufacturer.

-END-



SECTION I: INVITATION FOR BIDS

Sealed proposals will be received on behalf of the City of Rincon by M.E. Sack Engineering located at 515 N. Main Street, Hinesville, Georgia on December 13, 2024 until 9:00 a.m. local time for the Wastewater Treatment Plant (WWTP) Expansion.

The work to be performed consists of furnishing all labor, materials, and equipment to complete the WWTP Expansion. More specifically, the project will consist of grading, dredging and cleaning of reject pond, concrete driveways, drainage pipes and structures, demolition, electrical controls, erosion control and grassing, complete manual filter screen, complete influent pump station, complete SBR system, complete disk filtration system, complete UV disinfection, complete reject pump station, complete sludge dewatering system, emergency power supply, and transformer.

Plans, Specifications, and Contract documents are open to public inspection at the Georgia Procurement Registry, ConstructConnect, Dodge Construction Network, and www.mesack.com. Copies of the Plans, Specifications, and Contract Documents may be obtained by contacting M.E. Sack Engineering, bidning@mesack.com, 515 North Main Street, P.O. Box 649, Hinesville, Georgia 31310, (912) 368-5212, and by depositing a non-refundable five hundred dollars (\$500.00) for each set of plans requested.

A **mandatory** pre-bid conference and facility visit will be held on November 19, 2024 at 10:00 a.m. The meeting will be conducted at the City of Rincon WWTP, 500 Ackerman Road, Rincon, Georgia 31326. A site visit will be required immediately following the meeting.

Each Contractor must prequalify for bid by submitting a completed "Statement of Bidder Qualifications" form supplied by the Engineer. Bids will be accepted from prequalified bidders only.

Bids must be accompanied by a certified check or bid bond in an amount equal to at least five percent (5%) of total amount bid for the completed work.

No bids may be withdrawn for a period of sixty (60) days after the closing time schedule for receipt of bids.

The Owner reserves the right to accept or reject any or all bids and to waive informalities. Award of the contract, if it is awarded, will be to the lowest responsible bidder.

NOTE: Plans and Specifications must be obtained no later than five (5) working days before the bid date. No exceptions.