

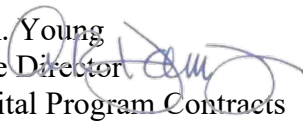


**BOARD OF EDUCATION**

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Mike Looney, Ed.D., Superintendent*

**DATE:** August 26, 2021

**TO:** All Contractors

**FROM:** Angela R. Young  
Executive Director   
FCS Capital Program Contracts

**RE:** RFP 400-22, Chemical Treatment System Improvements at 34 Schools and  
Water Line Replacement at Seaborn Lee Elementary School

Please find Addendum No. 3 to the subject solicitation attached.

**Addendum No. 3  
RFP 400-22**

**Chemical Treatment System Improvements at 34 Schools and a Water Line  
Replacement at Seaborn Lee Elementary School**

1. Addendum No. 3 has been issued for the above referenced project. Please contact the architect listed below:

Matheson-Ball & Associates, Inc.  
225 Reformation Parkway  
Suite 200  
Canton, GA 30114  
Attention: Greg Cox P.E., LEED AP  
Phone: (770) 999-0779  
[gregg@mathesonball.com](mailto:gregg@mathesonball.com)

2. All other terms and conditions remain the same.

**ADDENDUM #3 (8-26-2021)**

RE: RFP 400-22 CHEMICAL TREATMENT SYSTEM IMPROVEMENTS AT 34 SCHOOLS  
& WATER LINE REPLACEMENT AT SEABORN LEE ES

FROM: OWNER: FULTON COUNTY BOARD OF  
EDUCATION CAPITAL PROGRAM  
CONTRACTS  
6201 Powers Ferry  
Road NW Atlanta,  
GA 30339

TO: ALL PROSPECTIVE OFFERORS:

This Addendum forms a part of the Contract Documents and modifies the Proposal Documents as noted below. Acknowledge receipt of the Addendum in the space provided on Document 00400 - Proposal Acceptance Form. Failure to do so may result in the proposal being deemed non-responsive. The Addendum consists of 3 written pages and the documents cited below.

F. CHANGES TO PROPOSAL REQUIREMENTS TABLE OF CONTENTS: **NONE**

G. CHANGES TO PRIOR ADDENDUM: **NONE**

H. CHANGES TO PROPOSAL DOCUMENTS: **NONE**

I. CHANGES TO CONDITIONS OF THE CONTRACT: **NONE**

J. CHANGES TO DRAWINGS:

1. Drawing M0-01- Add the following general note: "7. Flush entire tower water piping system a minimum of two times before final chemical treatment. Base tower piping system quantities on the follow approximate volumes: 3,500 gallons per high school system, 2,750 gallons per middle school system, and 2,000 gallons per elementary school system."
2. Drawing M0-01- Add the following note: "Critical Path: A key critical path is based on the fact that work is being done on tower water piping in an occupied facility. Several sites will require that new chemical treatment piping connections be made to tower piping mains. These will need to be installed while the system is not in operation. The period of time the tower system can be offline will need to be carefully coordinated with the Owner. The tower systems are normally able to be off-line during colder weather months, but it should not be assumed that the tower systems will be available for several weeks in a row. Pipe connections to mains may need to be completed during school breaks so that the facility is available to provide cooling the maximum number of school days."
3. Drawing 2/M1-08- Replace keynote 6 with the following: "Demolish existing schedule 40 PVC piping and replace with schedule 80 PVC. Reuse pipe

connection to high piping main from heat exchanger. Cap tie-in to low main at tower pumps. Add new tie-in to high main entering heat exchanger.”

4. Drawing 1/M2-01: Delete second strainer at blowdown. Add pipe unions at chemical injection intersections (three per intersection). Change pipe material to schedule 80 PVC.

K. CHANGES TO SPECIFICATIONS:

1. Specification Section 232500, 1.8, B- Remove Chem-Aqua from list of manufacturers and suppliers. Replace with “Fulton County Schools current service contractor”.
2. Specification Section 232500, 2.3, B- Modify paragraph to change bromine dose frequency to 5 times per week during cooling tower operation at one minute at elementary schools, two minutes at middle schools, and four minutes at high schools.
3. Specification Section 232500, 2.3, C- Delete reference to closed loop piping treatment. Molybdenum based corrosion inhibitor shall be used in tower piping.

L. OTHER CHANGES: Answers to Contractor Questions-

1. Sheet M2-01 and Specification Section 232500, 2.1 C indicate there are to be 2 consecutive strainers in the same treatment stream, the first initially and then the 2nd in the blowdown line which is water that has already passed through the first strainer. Can the 2nd strainer be eliminated? Answer: Okay to remove strainer on blowdown.
2. Can brass inlet/outlet isolation ball valves be specified, as they are much more durable with just a nominal cost difference? Answer: No
3. The 3 chemical injection points should be surrounded by unions, as this section of pipe occasionally develops flow restriction from chemical that precipitates and forms a deposit. Unions allow easy access to clear away this blockage. Answer: Agreed – add unions
4. Sch 40 PVC is shown on M2-01. The Keynotes in the drawings also state only "PVC". Sch 80 is used for it's greater strength and temp rating and is typical at other schools that have had new installs. The cost difference is nominal. Can Sch 80 be specified? Answer: Use Schedule 80
5. Specification Section 232500, 2.3 B states the bromine biocide dose frequency as a minimum 3x/wk. To my knowledge the network is programmed to activate the meter pump for this chemical daily for 1 min at Elem's, 2 mins at MS's and 4 mins at HS's. Can the dosing frequency program in the BMS network be clarified? This can be a significant cost difference if the chemical is fed 3xs/wk vs 7 days/wk. Answer: Bromine is dosed as 1 minute at Elementary Schools, 2 minutes at Middle Schools and 4 minutes at High Schools, 5 times per week during cooling tower operation.
6. Specification Section 232500, 2.3, C states the requirements for a closed system corrosion inhibitor but nowhere is the Open system corrosion inhibitor product listed. This can also be a loophole for a cheaper product to be used if no requirements are stated. Answer: Molybdenum-based inhibitor should be used.
7. Sheet M0-01 states under General Notes that "all unused chemical containers and those larger than 5 gals shall be replaced with 5 gal size". During the pre-bid meeting I understood during conversations that the many old chemical

containers from years past were part of the scope, needing to be removed from the sites. Can this be clarified? Answer: Delete removal of old containers from scope. All new containers shall be 5-gallon size.

8. Specification Section 232500, 1.4, F describes the flushing part of the system cleaning cycle. Draining the system entirely 2 times is stated. This will produce higher rates of corrosion and not produce passivation, than if the system water containing the alkaline cleaner were turned over doing an online flush with a high gpm rate of turnover. If deemed appropriate, can this procedure be modified to do the flush turning over water with the pumps on, and flushing at as high a gpm bleed as is practical? Answer: We need to flush the entire cooling tower water piping system 2 times.
9. Specification Section 232500, 3.1, A, 3 states: monthly service visits for 12 months will be performed for all of the schools involved. Hopefully this isn't too hair-splitting, but I recommend stating that each service call is followed with a report sent by email. There are 35 systems each requiring 12 visits for 455 total service calls. This would allow for archiving and looking back at reports much easier. (also an idea to ask for the corrosion test coupons to be followed with a lab analysis report sent by email) Answer: Service reports by e-mail are acceptable if an on-line portal is not available.
10. What chemicals and quantity are to be provided as part of the contract? Answer: Enough chemical for a year.
11. Is there a list of all of the new chemical treatment components that will be provided as part of the contact? Answer: The list is in the specifications.
12. Is all of ALC's work in the contractor's scope? Answer: Yes

END OF ADDENDUM NO. 3