

Information to be included in all Legislation Modifying a Contract:

1. **The names, contract compliance no. & expiration date, location by City/State and status of all companies (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR) submitting a competitive bid or submitting an RFP or RFSQ.**

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>City/State</u>	<u>Status</u>
A. Burgess & Niple	31-0885550 / 10/04/2014	Columbus, OH	MAJ
B. Hazen & Sawyer	13-2904652 / 03/25/2016	Columbus, OH	MAJ

2. **What type of bidding process was used (ITB, RFP, RFSQ, Competitive Bid).**

RFP

3. **List the ranking and order of all bidders.**

1. Burgess & Niple
2. Hazen & Sawyer

4. **The name, address, contact name, phone number and contract number of the firm awarded the original contract.**

Hazen & Sawyer
 150 E. Campus View Boulevard, Suite 133
 Columbus, OH 43235
 Contact: Scott Phipps, PE, (614) 781-9655
 Auditor's Contract No.: EL 014712

5. **A description of work performed to date as part of the contract and a full description of work to be performed during any future phasing of the contract.**

This is a contract with Hazen and Sawyer for Professional Engineering Services (Design Professional, or "DP" services) for the JPWWTP Biosolids Land Application Improvements project. Hazen and Sawyer will provide Preliminary Design Services (Step 1), Detailed Design and Bidding Services (Step 2), and Services During Construction (Step 3).

The initial phase of this contract provided Professional Engineering Services for Preliminary Design (Step 1). The second phase provided Professional Engineering Services for Detailed Design and Bidding Services (Step 2) and was funded by Modification No. 1 and Modification No. 2. Modification No. 1 was planned and anticipated. Modification No. 2 was not planned, but provided additional and previously unanticipated Professional Engineering Services for Detailed Design (Step 2). This request for a modification (Modification No. 3) was not planned and will provide additional and previously unanticipated Professional Engineering Services for Detailed Design (Step 2). A future modification is anticipated as the third phase of Professional Engineering Services for Engineering Services During Construction (Step 3).

The scope of work for this project generally includes a new or modified liquid (10% TS) land application load-out facility and the assessment of the solids train to identify potential improvements, additional equipment requirements, and upgrades to meet the City's solids processing needs, e.g. the existing 14 biosolids tanks, pumping-mixing-piping systems, and

other solids related ancillary equipment.

Step 1 of this project, Preliminary Design, included the following five tasks: 1. Gather process information and refine project goals, 2. Conduct a process condition assessment of the land application process, 3. Participate in a Business Case Evaluation (BCE), 4. Generate a Preliminary Design Report (PDR) with preliminary drawings and equipment specifications, 5. Revise and submit the Final PDR.

Upon the City's approval of the PDR, Step 2, Detailed Design began. Detailed Design will prepare construction contract documents (including specifications and drawings) in accordance with City of Columbus Division of Sewerage and Drainage standards, guidelines, and direction for construction and implementation of the proposed facility. Detailed Design also includes plan and specification review meetings, assisting in negotiations, permitting, and other matters with U.S. EPA, Ohio EPA, and other government agencies as necessary, and bidding services (which includes assisting at the Pre-Bid Conference and bid opening, tabulating bids, making an award recommendation for lowest and best bid, and preparing Conformed to Contract documents.)

Modification No. 2 provided funding for previously unplanned, unanticipated, additional Step 2, Detailed Design Services. Detailed Design typically follows the recommendations of the PDR, but, during the course of detailed design, further investigations are conducted and, in some cases, it becomes apparent that some PDR recommendations require revision. Furthermore, as detailed design develops, requirements of building codes or additional design items that become apparent and surface during the course of detailed design require an additional design effort to provide a complete design and fully functional facility. Mod. No. 2's additional Step 2 tasks included the following: a change in location for the new biosolids load-out facility, a new recirculation pump for Tank D9, new HVAC equipment for Tunnels D, E, and F, an investigation to determine if tank walls can be raised to add additional storage capacity, and a contingency to provide for the design of future unplanned, unforeseen design items.

This modification (Modification No. 3) will provide funding for previously unplanned, unanticipated, additional Step 2, Detailed Design Services. During this project's Detailed Design phase, DOSD decided to cease operation of the plant's incinerators in early 2016. As a result of this decision, it was found that the space housing the incinerators' electrical gear could be used for this project's electrical gear and a planned building that would have housed this project's electrical gear could be eliminated from this project. This change in the electrical gear location could save over a million dollars in future construction costs. Also, this modification will provide funding to extend the walls of sludge storage tanks SS2 and SS3 to economically add 420,000 gallons of sludge storage. Mod. No. 3 will provide additional detailed design funding to relocate this project's electrical gear from the previously planned electrical building to the incinerators' electrical space and extend the walls of sludge storage tanks SS2 and SS3.

A future modification, will be requested for Step 3, Engineering Services During Construction which will include technical project representation (TPR) duties, construction phase engineering, start-up and commissioning assistance, and record documentation.

Construction Management Services will be performed by others.

6. A narrative timeline for the contract including a beginning date, beginning and ending dates for known phases of the contract and a projected ending date.

The Professional Engineering Services agreement was signed on October 17, 2013. It provided Step 1, Preliminary Design Services. The completion of Preliminary Design occurred in February 2015. Modification No. 1 provided funding for Step 2, Detailed Design and it commenced after the PDR was approved. Detailed Design will continue until advertisement for bids, then Bidding Services will commence. It is anticipated that plans and specs will be finalized and ready for advertisement during the third quarter of 2016. Bids will be received in the third quarter of 2016 and it is anticipated that the Notice to Proceed of the construction contract will occur in the fourth quarter of 2016. The anticipated end of the construction contract is late 2018. The Professional Engineering Services contract will continue beyond completion of construction to provide “as-built” record drawings of the constructed facilities.

7. A narrative discussing the economic impact or economic advantages of the project; community outreach or input in the development of the project; and any environmental factors or advantages of the project.

With the planned increase in and expansion of beneficial re-use of biosolids facilitated by this project, the JPWWTP will have the necessary infrastructure to facilitate the beneficial agricultural use of the plant’s biosolids by land application. With the completion of this project, it is anticipated that the need to use the incineration process at JPWWTP will be eliminated; so, there will be a corresponding improvement in air quality due to the elimination of the incinerator emissions. Both of these items are beneficial environmental advantages of this project since the City of Columbus’ Green Action Plan specifically calls for expanded reuse of biosolids and reduction of incineration. Land application uses are currently the lowest cost method for biosolids utilization. Expansion of these beneficial uses presents an economic advantage.

Public informational meetings are not anticipated for this project, because all proposed work should be within the boundaries of the wastewater treatment plant. Regulatory agencies will be notified of the proposed work as appropriate.

8. A description of any and all modifications to date including the amounts of each modification and the Contract Number associated with any modification to date. (List each modification separately.)

ORIGINAL CONTRACT (Step 1, Preliminary Design):	\$298,247.00 (EL014712)
MODIFICATION NO. 1 (Step 2, Detailed Design):	\$1,046,500.00 (EL016205)
MODIFICATION NO. 2 (Step 2, Detailed Design):	\$168,310.00 (PO 001168)

9. A full description of the work to be performed as part of the proposed contract modification. (Indicating the work to be a logical extension of the contract is not sufficient explanation.)

PROPOSED MODIFICATION NO. 3: \$178,700.00

This modification will provide \$178,700.00 of funding for additional Detailed Design Services (Step 2). The additional Step 2 tasks will relocate this project’s electrical gear from the previously planned electrical building to the incinerators’ electrical space and extend the walls of sludge storage tanks SS2 and SS3.

The change in the electrical gear location could save over a million dollars in future construction costs.

10. If the contract modification was not anticipated and explained in the original contract legislation, a full explanation as to the reasons the work could not have been anticipated is required. (Changed or field conditions is not sufficient explanation. Describe in full the changed conditions that require modification of the contract scope and amount.)

This Contract Modification was not anticipated. During detailed design, DOSD decided to cease operation of the incinerators at the plant; so, space for this project’s electrical gear became available for use and, as a result, a previously planned electrical building could be eliminated from the project. Also, this modification will provide funding to extend the walls of sludge storage tanks SS2 and SS3 to economically add 420,000 gallons of sludge storage. This additional detailed design effort is a continuation of the services included within the existing contract’s scope of services.

11. An explanation of why the work to be performed as part of the contract modification cannot be bid out. (Indicating the work to be a logical extension of the contract is not sufficient explanation.)

The funding provided by this contract modification is for the continuation of the existing work of the contract. Due to the highly complex and technical nature of this wastewater treatment plant infrastructure, it is not reasonable or cost effective to undertake a new procurement to acquire these services. The lengthy process for initiating a new procurement and for a new entity to gain understanding of the project would cause an unacceptable project delay and additional cost.

12. A cost summary to include the original contract amount, the cost of each modification to date (list each modification separately), the cost of the modification being requested in the legislation, the estimated cost of any future known modifications and a total estimate of the contract cost.

Original Contract (Step 1 - Preliminary Design)	\$298,247.00
Modification No. 1 (Step 2 - Detailed Design)	\$1,046,500.00
Modification No. 2 (Step 2 – Additional Detailed Design)	\$168,310.00
Proposed Modification No. 3 (Step 2 – Additional Detailed Design)	\$178,700.00
Future Modification No. 4 (Step 3 - Engineering Services During Construction)	\$1,160,000.00
CURRENT PROPOSED TOTAL	\$2,851,757.00

13. An explanation of how the cost of the modification was determined.

A cost proposal was provided by Hazen & Sawyer and reviewed by the Division of Sewerage and Drainage and was deemed acceptable.

14. Sub-Consultants identified to work on this contract, their contract compliance no. & expiration date, and their status (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR):

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>Status</u>
Please see the attached Subcontractor Work Identification Form.		

15. Scope of work for each subcontractor and their estimate of dollar value to be paid.

Please see the attached Subcontractor Work Identification Form.

Note: The Contract should be considered to include any and all work that is anticipated to be awarded to the company awarded the original contract throughout the contract/project timeline. This includes the original contract and any and all future anticipated modifications to the contract to complete the contract/project.