

**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>
Brown and Caldwell	94-1446346	Columbus, OH	MAJ

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

Requests for Proposals (RFP's) were opened on August 17, 2015.

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

1. Brown and Caldwell

4. **Complete address, contact name, phone number, and e-mail address for the successful bidder only.**

Brown and Caldwell  
445 Hutchinson Avenue, Suite 540  
Columbus, OH 43235  
Contact: Anne Kennedy  
Phone: (614) 410-3077  
Email: akennedy@brwncald.com

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. The planning area should also be listed as well as any street or neighborhood names.**

This is a contract with Brown and Caldwell for Professional Engineering Services (Design Professional, or "DP" services) for the SWWTP Digestion Process Expansion project. Brown and Caldwell 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) and Professional Engineering Services for Detailed Design and Bidding Services (Step 2).

The scope of work for this project originally included reconfiguring Methane Phase Digester 6 (MPD 6), reconfiguring and repurposing Acid Phase Digesters (APD) 1, 2, and 3, and building a new seventh methane phase digester (MPD 7). This project was to effectively discontinue SWWTP's acid phase digestion process and repurpose APDs 2 and 3 as thickened primary sludge (TPS) storage tanks and repurpose APD 1 as a predigestion

TPS/Thickened Waste Activated Sludge (TWAS) blending tank. This project also provided a comprehensive analysis of identified alternative treatment technologies and digestion process configurations for producing Class B biosolids.

Step 1 of this project, Preliminary Design, was completed on January 12, 2017 with the delivery of the Final DDM.

Step 2, Detailed Design was originally completed on October 1, 2018. At that time, SWWTP began to test the APDs to determine if they were still viable. After successful testing, bidding of this project was put on hold.

This modification is for a redesign of the original SWWTP Digester Process Expansion and will keep the design for the Digester 6 cover, Digester 7, electrical building, digester boiler system rehabilitation, and rehabilitation of Digester 1-5. The design will be modified to keep the APDs, modify the surface withdraw piping, replace all steam injectors, and provide a new foam separator and sediment trap for Digester 07.

A future renewal 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.

Planning Area: 99 – City wide

## **6. An updated contract timeline to contract completion.**

The Professional Engineering Services Agreement was executed on June 20, 2016 and provided Step 1, Preliminary Design Services, and Step 2, Detailed Design and Bidding Services. The Step 1, Preliminary Design Services, was completed on January 12, 2017 and Step 2, Detailed Design and Bidding Services was completed on October 1, 2018. This modification is anticipated to be executed in September of 2019 with a completion date of 180 days after notice to proceed is given for design (anticipated April 2020). Bids are anticipated to be received in the second quarter of 2020 and it is anticipated that the Notice to Proceed of the construction contract will occur in the fourth quarter of 2020. 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.**

SWWTP Digestion Process Expansion project will increase the beneficial re-use of biosolids in the liquid land application and deep row hybrid popular (DRHP) programs by providing more anaerobically-digested Class B biosolids. The primary goal of this project is to provide sufficient expanded anaerobic digestion facilities and all necessary associated piping and pumping capacity to successfully accommodate the additional solids produced by the Chemically Enhanced Primary Treatment (CEPT) process and the additional solids loadings to the SWWTP resulting from the anticipated growth of the City of Columbus.

**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.)**

This modification is the first one for the original contract PO013284.

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

This modification will remove the following from the design: foul air piping modifications from the APDs to the Loadout Biofilters (LB1 and LB4), foul air blower feeding LB1 and LB4, APD modifications and cover repairs, APD transfer pumps and sludge transfer process piping, Fats, Oil, and Grease (FOG) process piping, and BIO / SLT crossover connections in Tunnel C near DC4

This modification will add the following to the design: Modify the continuous surface withdraw standpipes design to allow for intermittent withdraw, replace the steam injectors on Digester D01 – D06 to match the new steam injector on Digester 07, provide a new foam separator and sediment trap for Digester 07 and ancillary improvements to Digester Control Building 1 (DCB1), and any other ancillary improvements identified as part of the OEC (CIP 650360-100002) Task Order 048.

**10. If the contract modifications 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 modifications of the contract scope and amount.)**

During preliminary and detailed design, an assumption that the acid phase digesters (APDs) were not viable was made. At the end of detailed design, Southerly Wastewater Treatment Plant (SWWTP) Staff decided to make an effort to verify that the APDs were not functional digesters and placed them back into service for three months. During this time, it was determined that the APDs were viable and helped to increase gas production while reducing the nuisance foaming that has occurred throughout the digestion process over the last 10 years. After proving the benefits and viability of the APDs, a decision was made at the administrative level to keep the APDs while continuing with the digester expansion project.

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

This work cannot be bid out because the DP had a completed and biddable design at the time that this project was placed on hold. Most of the major modifications to the design are removing those items that were associated with the APDs. An new RFP process would require a new, full redesign and cost much more money.

**12. A cost summary to include the original contract amount, the cost of each modifications to date (list each modifications 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 and 2, Preliminary Design & Detailed Design)	\$2,461,829 (PO013284)
MODIFICATION NO. 1 (current request)	\$397,198 (POXXXXXX)
RENEWAL NO. 1 (Step 3, Services During Construction, future)	\$1,522,350 (PO???????)

**13. An explanation of how the cost of the modifications was determined.**

The cost of the modification was determined through negotiation with the design time include the scope and cost

**14. Subconsultant information**

**\*For engineering agreements:**

Information regarding subconsultants should be submitted on the Subcontractor Work Identification Form Located on the Fiscal Intranet site under "DPU Fiscal Forms" (see link): <http://dpuweb/DPUFiscal/tabid/148/Default.aspx>

This form should have 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), name, C.C. No./Exp. Date, status, brief Scope of work for each subcontractor, and their estimate of dollar value to be paid.