

**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 RFSO.**

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>City/State</u>	<u>Status</u>
A. Brown and Caldwell	94-1446346 – 03/18/2016	Columbus, OH	MAJ
B. URS	34-0939859 – 07/02/2015	Columbus, OH	MAJ

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

RFP

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

Ranking:

- 1) Brown and Caldwell
- 2) URS

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

Address: Brown and Caldwell  
4700 Lakehurst Court  
Suite 100  
Columbus, Ohio 43016

Contact: David Nitz, Project Manager  
Phone: 614.410.3074  
E-Mail: [dnitz@brwncald.com](mailto:dnitz@brwncald.com)

5. **A full description of all work to be performed including a full description of work to be performed during any known phasing of the contract.**

This project is one of three projects to provide Chemically Enhanced Primary Treatment (CEPT) at the Southerly Wastewater Treatment Plant (SWWTP), as approved by the Ohio EPA. The CEPT facilities will provide additional plant capacity to treat wet weather flows in excess of 330 million gallons per day (MGD).

This project, known as SWWTP CEPT - Preliminary Treatment, will focus on upgrades and modifications to the headworks facility, solids handling facilities, and plant control system. This is a contract for professional engineering (Design Professional or "DP") services and Services During Construction. The initial phase of this contract provided Step 1, Preliminary Design Services, for the SWWTP CEPT - Preliminary Treatment. During preliminary design, the number and type of raw sewage pumps, fine screens, and gravity thickeners that should be added and/or replaced was determined. Also, the extent of structural renovations, the number of anti-siphon valves, variable frequency drives, and gates that should be added and/or replaced, and the extent of HVAC improvements was determined.

The next phase of this engineering contract will provide Step 2, Detailed Design and Bidding Services. This contract modification is requesting funding for this phase of the project. During this phase, the DP will develop detailed construction contract documents to define the

construction work. Construction contract documents will consist of drawings, specifications, and bidding documents based upon the City's standards and preferences. Detailed design will also include flushing water design improvements, SCADA upgrades, a power quality analysis, and a Reliability-Centered Maintenance analysis. Detailed design services will start in 2015 when the preliminary design phase has been completed. Bidding services will follow detailed design and will occur during the advertisement, bid opening, and construction contract execution phase of the project.

The actual emplacement of the work will be by construction contract. Step 3, Engineering Services During Construction will be performed in 2017 when the proposed improvements are being constructed. This phase of the engineering contract will provide construction-phase engineering, start-up and commissioning assistance, and record documentation preparation. It is anticipated that a future contract modification will be requested for this work. 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 DP began Step 1, Preliminary Design Services, after notice to proceed was given on July 23, 2014. Preliminary design will be completed in September, 2015. Step 2, Detailed Design Services, will commence immediately after the preliminary design work is approved and after this modification (Mod. No. 1) is approved by City Council and executed. It is estimated that detailed design will be completed during the third quarter of 2016. At the conclusion of the detailed design, it is estimated that the construction contract(s) will be advertised and bid in late 2016 and awarded in early 2017.

The overall contract duration, from initiation of Preliminary Design Services to completion of Services During Construction, is estimated to be 66 months. Brown and Caldwell's services 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.**

This project will capture and treat wet weather flows in excess of the current plant capacity. Without this improvement, these wastewater flows would be conveyed untreated to the river. The addition of this treatment process will remove solids and disinfect the wastewater which will provide protection of and benefit to the receiving waters.

Public informational meetings are not anticipated for this project. All proposed work should be within the boundaries of the wastewater treatment facility. 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.)**

This contract was entered into for an amount of \$1,583,073.00. That amount was sufficient to complete Step 1, Preliminary Design Services. The amount of this modification (Modification No. 1) for Step 2, Detailed Design and Bidding Services is \$3,648,350.00  
Accurate estimates of cost for all steps of the engineering services and project construction

are difficult to produce due to the many possible alternatives for facility improvements that will be considered. The following is an estimate of costs for the contract:

Original Contract (Step 1: Preliminary Design Services)	\$ 1,583,073.00
Modification No. 1 (Step 2: Detailed Design & Bidding Services)	\$ 3,648,350.00
Estimated Future Modification No. 2 (Step 3: Engineering Services During Construction) (Budgeted 2017)	\$ 3,000,000.00
<b>CURRENT PROPOSED TOTAL</b>	<b>\$ 8,231,423.00</b>

This Contract Modification for Step 2, Detailed Design and Bidding Services was planned and anticipated and the final amount was negotiated between B&C and DOSD, but the final amount is more than was estimated when the original contract was executed. At the inception of the project, it was necessary to estimate costs for future modifications. Those estimates were based upon a percentage of the estimated construction costs at that time, but it was difficult to determine and define all of the items that need to be considered during design; therefore, the increase from the original estimated fees for the modifications is due to current estimated construction costs and due to items that were determined during design that will improve the overall implementation and effectiveness of the project, but will also require additional effort during Step 2 and Step 3. The amount shown for Future Modification No. 2 (Step 3 Engineering Services During Construction) is strictly an estimate at this time and is based upon a percentage of the current estimated construction costs. The final amount may change as the project progresses through detailed design.

**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.)**

This proposed contract modification will provide funding for Step 2, Detailed Design and Bidding Services. During this phase, the DP will develop detailed construction contract documents to define the construction work. Construction contract documents will consist of drawings, specifications, and bidding documents based upon the City's standards and preferences. Detailed design will also include flushing water design improvements, SCADA upgrades, a power quality analysis, and a Reliability-Centered Maintenance analysis. Step 2, Detailed Design Services, will start in 2015 when the preliminary design phase has been completed, after City Council approval, and after execution of this modification. Step 2, Bidding Services, will follow detailed design and will occur during the advertisement, bid opening, and construction contract execution phase of the project.

**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 (Modification No. 1) for Step 2, Detailed Design and Bidding Services, was planned and anticipated and the final amount was negotiated between B&C and DOSD. In so much as the majority of the work included in this modification was planned for and anticipated within the original procurement, due to the highly complex and technical nature of this wastewater treatment plant infrastructure, it is not reasonable or cost efficient to undertake a new procurement effort to acquire these 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.)**

At the inception of a project, budgetary estimates for future design and construction contracts are generated, but it is difficult to determine and define all of the items that may be touched upon during the project's design phases and its construction. At the outset of preliminary design, all project components are not completely defined at that time and are better determined as the preliminary design progresses. Additional items to be addressed by the design effort may only become known during detailed design, as more in-depth design development occurs. As additional items to be addressed by the design effort become known, these items are considered to be integral for the successful completion of the project and are considered to be a part of the original procurement. As the design progresses through preliminary design and detailed design, the project requirements for a complete design of a fully functioning facility come into better focus. The additional project items that become apparent during design are necessary for a fully functioning facility and are considered to be within the project's scope of services in order to provide a full and complete set of bid documents. In so much as the majority of the work included in this modification was planned for and anticipated within the original procurement, due to the highly complex and technical nature of this wastewater treatment plant infrastructure, it is not reasonable or cost efficient to undertake a new procurement effort to acquire independent design services for additional items that may become apparent during the design process and are within the project's initial scope. The lengthy process for initiating a new procurement and for a new entity to gain understanding of the project would likely 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.**

The original engineering contract for Step 1, Preliminary Design Services, was \$1,583,073.00. This modification for Step2, Detailed Design Services and Bidding Services, is for an amount of \$3,648,350.00. A modification for Step 3, Engineering Services During Construction, will be requested in the future. The estimated amount for Step 3 is based upon a percentage of the current estimated construction costs. The estimate for Step 3 Services is currently \$3,000,000.00.

The following is an estimate of costs for the contract:

Original Contract (Step 1: Preliminary Design Services)	\$1,583,073.00
Modification No. 1 (Step 2: Detailed Design & Bidding Services)	\$3,648,350.00
Modification No. 2 (Step 3: Engineering Services During Construction)	\$3,000,000.00
<b>CURRENT PROPOSED TOTAL</b>	<b>\$8,231,423.00</b>

If unforeseen issues or difficulties are encountered that would require additional funding, a modification would be requested.

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

A cost proposal was provided by Brown & Caldwell 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):**

**Name** **C.C. No./Exp. Date** **Status**

Please see the attached Subcontractor Work Identification Forms.

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

Please see the attached Subcontractor Work Identification Forms.

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.

Updated as of 4-10-10