

**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>
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Companies submitting an RFSQ:

- A. Camp Dresser & McKee | 042473650 / 04/11/2010 | Worthington, Ohio| MAJ
- B. Gannett Fleming Corddry & Carpenter (now Gannett Fleming Engineers & Architects ) | 232935505 / 06/11/2010| Columbus, Ohio| MAJ
- C. Metcalf & Eddy of Ohio, Inc. (now AECOM USA, Inc.) | 222581306 / 05/28/2010 | Columbus, Ohio| MAJ
- D. R. D. Zande & Associates, Inc. (now acquired by Stantec Consulting Services, Inc.) | 311395123 (Stantec CCCN 112167170 / 12/17/2011) | Columbus, Ohio| MAJ
- E. Sverdrup Associates, Inc. (now a subsidiary Engineering Group) | Inactive | Columbus, Ohio| MAJ

Companies that were selected and requested to submit, and did submit, a Technical Proposal (RFP):

- A. Camp Dresser & McKee
- B. Metcalf & Eddy of Ohio, Inc.
- C. R. D. Zande & Associates, Inc.

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

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

- R. D. Zande & Associates, Inc.
- Camp Dresser & McKee
- Metcalf & Eddy of Ohio, Inc.

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

R. D. Zande & Associates, Inc., 1500 Lake Shore Drive, Columbus, Ohio 43204 (now acquired by Stantec Consulting Services, Inc. and so referred to hereafter)  
Contact: Michael Brewster, P.E., (614) 486-4383  
Contract No.: EL900074

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 professional services contract provided engineering design services and services during construction for the Southerly Wastewater Treatment Plant Digester Rehabilitation project, Project 650353. Project improvement was accomplished in two phases. The initial phase provides for installation of a pipeline to supply natural gas to the Southerly Plant, and

improvements to sludge incinerator fuel systems. All engineering services and construction are completed for the project's first phase.

The project second phase, the main portion of project improvements, provided for extensive rehabilitation of the existing sludge digester process facilities, and construction of three new acid phase digester tanks and associated process facilities. The actual emplacement of the work was by construction contract. This engineering contract provided: preliminary and detailed design, bidding assistance, and construction-phase engineering.

For the project's second phase, design services are completed and services during construction are nearly completed. The proposed contract modification will provide needed investigation and evaluation tasks to determine the contributing causes for the operational deficiencies experienced by the sludge digestion process and the recommended remedies for optimum process performance.

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

A Notice to Proceed for the Preliminary Design work was issued on March 22, 1999. On August 17, 2001, the DDM was submitted that incorporated all the City's review comments and the Value Engineering review comments. On November 6, 2000, Detailed Design Services for the first phase of project construction, the natural gas pipeline began. Bids were received on August 1, 2001. The construction contract was awarded and the Notice to Proceed was issued on December 12, 2001. Final Completion of construction occurred on August 23, 2002.

On February 4, 2002, notice to proceed with Detailed Design services for the second project phase, Contract S66. In September, 2002, the Administrator of the Division of Sewerage and Drainage placed the design work on hold, until it was reactivated in June 2004. The design was completed and bids were opened on September 21, 2005. The construction contract was awarded and the Notice to Proceed was issued on March 20, 2006. Construction has achieved substantial completion. Stantec's services will continue beyond completion of construction to provide "as-built" record drawings of the constructed facilities.

The S66 constructed digestion facilities were placed in operation in March and April, 2009. After initial feed loads of thickened primary sludge resulted in acceptable performance, thickened waste activated sludge was added in increasing percentages until foaming occurred. Also the digestion process is producing gas that is high in sulfur. The proposed contract modification will provide needed investigation and evaluation tasks to determine the contributing causes for the operational deficiencies experienced by the sludge digestion process and the recommended remedies for optimum process performance.

**7. 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: \$1,213,977.00 (EL900074)

Funding was provided for Step 1 - Preliminary Design services for both project phases.

MODIFICATION NO. 1: \$83,954.75 (EL000789)

This modification provided funding for Step 2 – Detailed Design services for the project’s first phase.

MODIFICATION NO. 2: \$89,506.25 (EL001739)

This modification provided funding for Step 3 - Services During Construction for the construction of the project’s first phase.

MODIFICATION NO. 3: \$1,494,934.00 (EL002068)

This modification provided funding for Step 2 – Detailed Design services for the project’s second phase.

MODIFICATION NO. 4: \$5,760,122.25 (EL005899)

This modification provided additional funding for Step 2 – Detailed Design services for the project’s second phase and funding for the performance of Step 3- Services During Construction for the project’s second phase.

MODIFICATION NO. 5: \$972,976.00 (EL009034)

This modification provides funding for added and extended Services During Construction tasks for the project’s second phase.

**8. 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. 6: \$300,000.00  
(\$249,310.60 for services and \$50,689.40 contingency)

This modification provides \$300,000.00 of funding for the project’s second phase to investigate, evaluate data and determine the contributing causes for the operational deficiencies experienced by the sludge digestion process and the recommended remedies for optimum process performance. The additional work includes:

- A. Review existing sampling and performance data.
- B. Prepare and execute a sampling plan to collect necessary additional process performance data.
- C. Review and evaluate collected process data to prepare hypotheses for causes for the sludge digestion process operational difficulties. Consult with DR. Sam Gosh, who is the world’s foremost expert on acid phase digestion. Submit a technical memorandum for the findings.
- D. Prepare a report with results of the investigation and provide recommended remedies.

**9. 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.)**

After the Acid Phase Anaerobic Digestion System constructed under Contract S66 was placed on line, initial feed loads of thickened primary sludge resulted in acceptable performance. However over the next several months, as increased amounts thickened waste sludge were introduced into the process, foaming occurred, which was an unexpected operational problem. Also the digestion process is producing gas that is high in sulfur, which can cause compliance issues with the City's air permits, issued by Ohio EPA. Several preliminary hypotheses have been formed for the causes of these operation difficulties. This proposed modification will investigate and determine the contributing causes for the operational difficulties and recommend remedies to achieve optimum process performance.

**10. 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.)**

Investigation and resolution of the operational difficulties encountered is most efficiently addressed by those most familiar with the digestion process, the project design and construction. It is not deemed either feasible or reasonable to suspend work with the entity currently under contract, and undertake continuation of the work under a new procurement. 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.

**11. 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	\$1,213,977.00
Modification No. 1	\$ 83,954.75
Modification No. 2	\$ 89,506.25
Cancellation of Mod. 2's Remaining Balance	(\$ 1,100.81)
Modification No. 3	\$1,494,934.00
Modification No. 4	\$5,760,122.25
Modification No. 5	\$ 972,976.00
Proposed Modification No. 6	\$ 300,000.00
Anticipated future needs	\$ 0.00
CURRENT PROPOSED TOTAL	\$9,914,369.44

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

The cost of this contract modification is within the direct labor, overhead, and profit rates established within the original proposal. The estimate of the quantity of labor required to provide the scope of services for this modification is consistent with the anticipated level of work required for these tasks.

**13. 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>
See attached Subcontracting and MBE/FBE Utilization Report, 1/12/10, and Subcontractor Contact Report, 1/11/10.		

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

See attached Subcontracting and MBE/FBE Utilization Report, 1/12/10, and Subcontractor Contact Report, 1/11/10.

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 4-3-09 (JPM)