

**INFORMATION REQUIRED TO ACCOMPANY
LEGISLATION AUTHORIZING A CONTRACT**

ORDINANCE NO. 2301-2006

**MODIFICATION NO. 8 TO CONTRACT FOR
PROFESSIONAL SERVICES**

**SOUTHERLY WASTEWATER TREATMENT PLANT
NEW HEADWORKS
PROJECT NO. 650352**

**PROCUREMENT BY REQUEST FOR STATEMENT OF QUALIFICATIONS (RFSQ)
PROCESS**

1. **Names, locations, and business status of all entities submitting an RFP or RFSQ for the original contract:**

Companies submitting an RFSQ:

- A. Burgess & Niple, Ltd., 5085 Reed Road, Columbus, Ohio 43220, Majority
- B. R.D. Zande & Associates, Inc., 1500 Lake Shore Drive, Columbus, Ohio 43204, Majority
- C. Malcolm Pirnie, Inc., 1900 Polaris Parkway, Suite 200, Columbus OH 43240-2020, Majority
- D. ms consultants, inc., 2221 Schrock Road, Columbus, OH 43229-1547, Majority
- E. Black & Veatch, Inc., 10250 Alliance Road, Suite 101, Cincinnati, Ohio 45242, Majority

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

- A. Burgess & Niple, Ltd.
- B. R.D. Zande & Associates, Inc.
- C. Malcolm Pirnie, Inc.

2. **Scope of Work to be performed:** The Contract with Malcolm Pirnie, Inc. provides professional engineering services for the Southerly Wastewater Treatment Plant New Headworks, Project No. 650352. Project improvements are being built under four separately bid construction contracts. The construction contract designations and purpose are:

Contract J203/S63 – Primary Sludge Pumping System Improvements

Provides for the replacement of the Primary Sludge Pumps at the Jackson Pike and Southerly Wastewater Treatment Plants.

Contract S65 – Raw Sewage Pump Building

Provides for the construction of a raw sewage pump building with pumps, mechanically cleaned bar racks, associated equipment and building systems, piping and site work.

Contract S67 – Screen & Grit Facilities

Provides for the construction of a screen and grit facility with perforated panel screens, grit removal tanks, odor control facility, associated equipment and building systems, piping and site work.

Contract number not assigned – Decommissioning

Provides for the decommissioning of the existing headworks facilities.

The engineering services provided by Malcolm Pirnie, Inc. are being accomplished in three Steps for each of the construction contracts, as follows:

Step 1 - Preliminary Design services begin with an investigation and evaluation of the existing facilities' records, function and condition; an investigation of process technology and available equipment; and an evaluation of the present and future needs of the City in regard to the planned improvement. A detailed report is developed that describes the investigative efforts, provides a general plan for project improvements that includes viable alternatives, and provides recommendations for the City's consideration and determination of project direction.

Step 2 – Detailed Design services provide for development of a facility design that is detailed in written specifications and drawings for bidding the construction work of the Project, development of estimates of project cost and duration, and assistance with bid solicitation and evaluation.

Step 3 – Services During Construction provide for assistance to the City during construction of project improvements.

Technical and Field Services generally include providing interpretations and clarifications of the construction documents, responding to contractor's inquiries, reviewing and approving the contractor's submitted documentation, designing and documenting needed changes to the construction work, observing and verifying construction work, providing evaluations and recommendations on the acceptability of the contractor's work, equipment control software programming, observing facility testing and startup, providing training for plant operations and maintenance personnel, providing manuals for facility operation, and revising drawings of the facility as actually constructed.

Construction Management provides for administration of the project as the City's representative to the construction contractor and generally consists of maintaining and communicating project information, verifying the contractor's compliance with required schedules, verifying the contractor's payment requests, evaluating and negotiating proposed changes in the construction work, providing materials testing, conducting and recording project meetings, coordinating construction work with the plant operations, coordinating quality control verification work, obtaining maintenance and warranty documentation from the construction contractor, and reporting of project progress to the City.

Malcolm Pirnie, Inc. is performing Technical and Field Services for all construction contracts in the project. Construction Management services are being performed by others. It is planned that this contract will be modified for the Decommissioning work and to provide needed monies, if necessary, for any anomalies in the work which may become evident as the work progresses.

Engineering Services Progress:

Contract J203/S63 – All engineering services have been completed for this project phase. All construction work is completed and the contract is closed.

Contract S65 – All Preliminary Design and Detailed Design services are complete for this project phase. Services During Construction are underway. The proposed contract modification provides supplemental funding for these services.

Contract S67 – All Preliminary Design and Detailed Design services are complete for this project phase. Services During Construction are underway.

Decommissioning Contract – Work on this phase of the project has not started. Preliminary and Detailed Design will begin as construction is finishing for Contracts S65 and S67.

3. **Schedule to Program completion; "phasing":** The Contract Notice to Proceed was issued November 5, 1997.

Contract J203/S63 – Primary Sludge Pumping System Improvements

A Preliminary Design Report for the Primary Sludge Pumping System Improvements was submitted to the City on March 7, 2001. In February, 2001, Malcolm Pirnie, Inc. proceeded with Detailed Design services (Step 2) for Contract J203/S63. The design was completed and the construction contract bids were received on October 24, 2001. The contract was awarded and the Notice to Proceed was issued on May 30, 2002. Construction was completed in September, 2005.

Contract S65 – Raw Sewage Pump Building –

The Preliminary Design (Step 1) work for the headworks facility was started November, 1999. This investigative and planning effort was summarized in the Detailed Design Memorandum (DDM), submitted to the City on October 29, 1999. In July, 2001, Malcolm Pirnie, Inc. proceeded with Detailed Design services (Step 2) for Contract S65. The design was completed and the construction contract bids were received on September 3, 2003. The contract was awarded and the Notice to Proceed was issued on May 10, 2004. Final Completion of construction is scheduled for February 19, 2008.

Contract S67 – Screen & Grit Facilities

The Preliminary Design (Step 1) work for the headworks facility was started November, 1999. This investigative and planning effort was summarized in the Detailed Design Memorandum (DDM), submitted to the City on October 29, 1999. In February, 2003, Malcolm Pirnie, Inc. proceeded with Detailed Design services (Step 2) for Contract S67. The design was completed and the construction contract bids were received on October 27, 2004. The contract was awarded and the Notice to Proceed was issued on May 24, 2005. Final Completion of construction is scheduled for February 19, 2008.

Construction on the New Headworks at the City of Columbus' Southerly Wastewater Treatment Plant is proceeding on a very tight schedule, in order to meet the City's commitment to Ohio EPA as to the operational date for the new headworks facilities. These facilities are required facilities under the City's Consent Decrees with Ohio EPA, and have been included in the City's Wet Weather Management Plan, submitted to the agency on July 1, 2005, as scheduled.

Contract number not assigned – Decommissioning

Design is scheduled to begin, after completion of construction for Contracts S65 and S67 in 2008, with a bid opening in 2009. Final Completion of construction is scheduled for 2011.

4. **Estimated Costs over the full contract period:**

ORIGINAL CONTRACT: \$1,567,500.00 (CT-18653 October 28, 1997)

Funding provided estimated to be needed for Step 1 - Preliminary Design services for the new headworks facility, Contracts S65 and S67.

MODIFICATION NO. 1: \$707,500.00 (EL000202 March 14, 2000)

Additional funding provided for Step 1 - Preliminary Design services for the new headworks facility, Contracts S65 and S67 and funding provided for Step 1 - Preliminary Design and Step 2 – Detailed Design services estimated to be needed for Contract J203/S63.

MODIFICATION NO. 2: \$3,060,000.00 (EL001386 July 5, 2001)

Funding provided for Step 2 – Detailed Design services estimated to be needed for Contract S65.

MODIFICATION NO. 3: \$122,000.00 (EL002285 May 13, 2002)

Tasks defined and funding provided for Step 3 - Services During Construction estimated to be needed for Contract J203/S63.

MODIFICATION NO. 4: \$50,000.00 (EL003166 February 11, 2003)

Funding provided for additional Step 2 - Detailed Design services for Contract J203/S63.

MODIFICATION NO. 5: \$3,193,000.00 (EL003167 and EL003168 February 14, 2003)

Funding provided for Step 2 – Detailed Design services estimated to be needed for Contract S67 and for additional Step 2 - Detailed Design services for Contract S65.

MODIFICATION NO. 6: \$3,792,000.00 (EL004220 April 29, 2004)

Tasks defined and funding provided for Step 3 - Services During Construction estimated to be needed for Contract S65.

MODIFICATION NO. 7: \$4,614,000.00 (EL005306 May 12, 2005)

Tasks defined and funding provided for Step 3 - Services During Construction estimated to be needed for Contract S67 and for additional Step 3 - Services During Construction estimated to be needed for Contract S65.

PROPOSED MODIFICATION NO. 8: \$280,000.00

In June, 2004, and again with greater severity in January, 2005, flooding of the Scioto River at the project site flooded the Contract S65 excavation and substantially delayed the construction. The January, 2005 flood was part of a regional disaster declared by the

Federal Emergency Management Agency (FEMA), and very nearly caused the destruction of the Southerly plant's principal influent sewer, the Big Walnut Outfall (BWO).

Emergency work was focused on the BWO during and after the January, 2005 flood. In addition to this emergency work, it is necessary to forestall additional possible flooding during the construction period, by providing both increased dewatering effort, and actual floodproofing which was not required in the specifications as bid. The severity of the wet weather events and site flooding experienced was above and beyond levels previously experienced or predicted. The originally-stipulated schedule dates for the S65 project must be recovered in order to honor the City's commitments to Ohio EPA. This recovery effort is necessary and expensive.

Proper project management of this project necessitates additional funding be provided, in order to allow the processing of change orders which are incident to all large construction projects and to properly monitor the contractor's schedule recovery efforts.

This modification is a result of the January 2005 flood event at the Southerly Wastewater Plant, New Headwork site and the Contractor's claim for additional dewatering costs. This modification is for additional Technical and Field Services required to properly monitor the contractor's schedule recovery efforts, evaluate the merits of the Contractor's site dewatering claim, and evaluate the construction of a site flood protection levee and the stabilization alternatives for the Big Walnut Outfall Sewer. A supplemental loan for these purposes has been received from the Ohio Water Pollution Control Fund. This modification provides \$280,000.00.00 of funding for this task.

Original Contract	\$ 1,567,500.00
Modification No. 1	\$ 707,500.00
Modification No. 2	\$ 3,060,000.00
Modification No. 3	\$ 122,000.00
Modification No. 4	\$ 50,000.00
Modification No. 5	\$ 3,193,000.00
Modification No. 6	\$ 3,792,000.00
Modification No. 7	\$ 4,614,000.00
Proposed Modification No. 8	\$ 280,000.00
Future Modification No. 9 (estimated, 2008 funding)	\$ 855,000.00
Future Modification No. 10 (estimated, 2009 funding)	<u>\$ 232,000.00</u>
CURRENT PROPOSED TOTAL	\$18,473,000.00