



RESOLUTION NO. 38820

1 A RESOLUTION related to the purchase of materials, supplies or equipment, and
2 the furnishing of services; authorizing the increase of Contract
3 No. 4600007933 with Carollo Engineers, Inc., by an amount not to exceed
4 \$2,392,218, sales tax not applicable, for a maximum contract amount of
5 \$4,053,700, sales tax not applicable, budgeted from the Wastewater Fund,
6 to provide for Owner's Representative Services during the construction and
7 startup phases of the Wastewater Treatment Plant Computer Control
8 System Upgrade Project - Specification No. PW11-0422F.

9 WHEREAS the City has complied with all applicable laws and processes
10 governing the acquisition of those supplies, and/or the procurement of those
11 services, inclusive of public works, as is shown by the attached Exhibit "A,"
12 incorporated herein as though fully set forth, and

13 WHEREAS the Board of Contracts and Awards has concurred with the
14 recommendation for award as set forth in Exhibit "A"; Now, Therefore,

15 BE IT RESOLVED BY THE COUNCIL OF THE CITY OF TACOMA:

16 Section 1. That the Council of the City of Tacoma concurs with the
17 Board of Contracts and Awards to adopt the recommendation for award as set
18 forth in the attached Exhibit "A."

19 Section 2. That the proper officers of the City are hereby authorized to
20 increase Contract No. 4600007933 with Carollo Engineers, Inc., by an amount
21 not to exceed \$2,392,218, sales tax not applicable, for a maximum contract
22 amount of \$4,053,700, sales tax not applicable, budgeted from the Wastewater
23 Fund, to provide for Owner's Representative Services during the construction
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1 and startup phases of the Wastewater Treatment Plant Computer Control
2 System Upgrade Project - Specification No. PW11-0422F, consistent with
3 Exhibit "A."

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5 Adopted _____

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Mayor

7 Attest:
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9 City Clerk

10 Approved as to form:
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12 _____
13 City Attorney

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City of Tacoma
Environmental Services Department

DATE: December 30, 2013
TO: Board of Contracts and Awards
SUBJECT: Contract Amendment No. 2 for the Wastewater Treatment Plant Control System Upgrade Project; Budgeted from ES Wastewater Fund 4300
 Request for Qualifications Specification No. PW11-0422F
 Contract No. 4600007933

RECOMMENDATION: The Environmental Services Department, Science and Engineering Division requests approval to increase SAP Contract No. 4600007933 with **Carollo Engineers, Inc., Seattle, WA**, by \$2,392,218.00, sales tax not applicable. This increase will bring the contract to a cumulative amount of \$4,053,700.00, sales tax not applicable.

EXPLANATION: An increase is primarily required to provide for Owner's Representative Services during the construction and startup phases of the Wastewater Treatment Plant Computer Control System Upgrade project. Under the terms of the current contract (together with Contract Amendment No. 1), the City has the option to expand the scope of professional services (via a second contract amendment and Council approval) to include services during construction and commissioning. The scope for this second phase of work could not be accurately defined previously, and was not included in the subject contract or in Contract Amendment No. 1.

Consultant scope of services during the construction phase of this project is needed to provide on-site and office support services for this \$16,500,000 capital project, over a 26-month construction period. Significant components of these services include:

- Full-time services during the 26-month project construction of a specialized instrumentation and control resident engineer.
- Office technical support services for providing additional review of submittals, record drawings, RFIs and other documentation.

This contract amendment also provides for an increase to the scope of services and budget for the Owner's Representative Services for the planning, design, and procurement phases of the Wastewater Treatment Plant Computer Control System Upgrade Project. The scope increase is primarily due to the following reasons:

- The physical scope of the project was increased significantly (approximately \$1,200,000 in extra capital costs) to incorporate various "value-added" features that increase the level and efficiency of automation of the facilities, which incurred additional design costs.
- Additional project management and coordination effort is required to accommodate an eight-month increase to the duration of the design phase of the project required to accommodate design of these "value-added" features and allow City staff time to undertake additional technical reviews associated with this additional scope.

The City's Central Treatment Plant (CTP) and the North End Treatment Plant (NETP) share a single computer control system for operation and monitoring of equipment within each facility. This existing control system was installed at the CTP in the mid-1980s; in 1997 the system was expanded to include the NETP. Between 2006 and 2009, a major facility expansion and upgrade was constructed at the CTP which included ensuring that all new equipment was connected to the existing control system as appropriate.

Over the past several years, the City has been evaluating options for a complete upgrade to the computer control system that would ensure both treatment facilities have increased reliability and are able to continue operation in a cost effective manner. In addition, the Wastewater section has budgeted for the anticipated capital improvements associated with this computer control system upgrade.

The existing computer control system must be expanded to include areas of each facility that do not currently have appropriate levels of automation. In addition, much of the existing system has become obsolete and unreliable since its original installation in the mid-1980s.

The City's wastewater National Pollutant Discharge Elimination System (NPDES) Permits, one for the CTP and another for the NETP, require a high level of treatment before discharging into Commencement Bay. The equipment and treatment processes necessary to achieve this high level of treatment are complex. Reliable and well designed computer control systems are an extremely important component to the effective operation of these treatment systems. Well designed computer control systems give City staff additional tools to help ensure that the City can maximize the treatment potential from these systems and do so at the lowest possible cost, while protecting public health. This project will provide these attributes at both treatment facilities.

Prior to undertaking the computer control system upgrade, significant engineering effort is necessary to determine the exact requirements for the control system and to develop procurement documents that can effectively provide the City with the best available technology at the most competitive price.

The Professional Services contract currently provides the following services:

- Complete the documentation of the existing system as necessary for issuing a Request for Proposals (RFP);
- Conducting workshops with City staff to determine requirements for the new system;
- Development of drawings, specifications and contract documents to support the RFP; and,
- Assisting in vendor selection and contracting.

COMPETITIVE SOLICITATION: The contract was originally awarded to Carollo Engineers Washington, P.C. (now Carollo Engineers, Inc.) as the result of a Request for Qualifications (RFQ) process via Specification No. PW11-0422F in August 2011. Seven firms were invited to submit qualifications and the RFQ was publicly advertized in the Seattle Daily Journal of Commerce and Tacoma Daily Index. The City received three Statements of Qualifications which were opened on August 2, 2011. This was followed by interviews and consultant selection in late September, 2011. Carollo Engineers Washington, P.C. was selected based on a ranking process that combined the evaluation scores for each consultant's statement of qualifications and interview.

SUSTAINABILITY FACTORS: This project will improve the automated control of the City's wastewater treatment plants and improve the level of control and monitoring of the treatment processes. As a result, this will improve the reliability of the plants and help ensure that Tacoma's wastewater receives a consistently high level of treatment which will help preserve the water quality of Commencement Bay.

CONTRACT HISTORY: The original contract to Carollo Engineers Washington, P.C. in the amount of \$1,061,070.00, sales tax not applicable, was approved by City Council Resolution No. 38425 on February 7, 2012. Subsequently, this contract was amended to increase the

contract amount by \$600,412.00, to \$1,661,482.00, sales tax not applicable. The current amendment is the second amendment to the contract.

FUNDING: Funds are budgeted in the ES Wastewater Fund 4300. Funding beyond the current biennium is subject to future availability of funds.

PROJECT ENGINEER/COORDINATOR: Geoffrey M. Smyth, P.E., Science and Engineering Division Manager, 253-502-2111.



Michael P. Slevin III, P.E.
Environmental Services Director

cc: Joseph Parris, Senior Buyer
Charles Wilson, SBE Coordinator
Peter Guzman, LEAP Coordinator
Eric Johnson, Environmental Services