



**Professional Services Amendment
CITY OF AUSTIN
RECOMMENDATION FOR COUNCIL ACTION**

**AGENDA ITEM NO.: 13
AGENDA DATE: Thu 01/12/2006
PAGE: 1 of 4**

SUBJECT: Authorize negotiation and execution of an amendment to the professional services agreement with LOCKWOOD, ANDREWS AND NEWNAM, INC., Austin, TX, for engineering services for the Davis Water Treatment Plant Filter Process Improvements and Valve Replacements in an amount not to exceed \$1,127,083.20 for a total contract amount not to exceed \$1,769,907.79.

AMOUNT & SOURCE OF FUNDING: Funding in the amount of \$1,127,083.20 is included in the Fiscal Year 2005-2006 Approved Capital Budget of the Austin Water Utility.

FISCAL NOTE: A fiscal note is attached.

REQUESTING Public Works
DEPARTMEN for Austin Water Utility;
T:

**DIRECTOR'S
AUTHORIZATION:** Sondra Creighton

FOR MORE INFORMATION CONTACT: Keri R. Burchard-Juarez, PE, 974-7298; James King, PE, 972-1794; Laura Bohl, 974-7064

PRIOR COUNCIL ACTION: A Professional Services Agreement with LOCKWOOD, ANDREWS AND NEWNAM, INC. for the Davis Water Treatment Plant Filter Process Improvements and Valve Replacements in an amount not to exceed \$600,000 was approved on January 13, 2005.

BOARD AND COMMISSION ACTION: Recommended by the Water and Wastewater Commission.

PURCHASING: N/A

MBE / WBE: 10.68% MBE and 26.01% WBE subcontractor participation.

The Davis Water Treatment Plant has a rated design treatment capacity of 120 million gallons per day. The plant is a conventional lime softening design, with rapid mix basins, flocculation basins, sedimentation basins, gravity filters, clearwell storage, and raw water and finished water pumping stations. Powdered Activated Carbon is added for taste and odor control, and settled water pH is adjusted with carbon dioxide. The plant was originally constructed in 1954 and expanded in 1961 and 1973.

The Davis WTP has been the City's workhorse water treatment plant for fifty years. However, due to the age of the Plant, a series of projects are required to retrofit the Plant so that it will remain the City's workhorse for the next fifty years. Currently, much of the existing equipment has exceeded its anticipated useful life and is no longer supported by the equipment manufacturers, making acquisition of spare parts no longer possible. Additionally, the integrity of certain infrastructure components have been compromised by corrosion and age such that significant repairs are required to ensure Plant and process reliability. Also, evaluations of processes currently of 1950s vintage technology would provide more efficient and reliable operations by employing more recent technologies. This is the first of a series of retrofit-type projects to upgrade the Plant to ensure it is able to reliably maintain its current rated capacity. These types of facility retrofit projects require detailed preliminary engineering that evaluates existing conditions, considers available options, develops detailed cost estimates and recommends the most feasible and cost-effective improvements for construction. Especially for these type projects, the final design scope and the design and construction costs cannot be accurately determined until the preliminary



**Professional Services Amendment
CITY OF AUSTIN
RECOMMENDATION FOR COUNCIL ACTION**

**AGENDA ITEM NO.: 13
AGENDA DATE: Thu 01/12/2006
PAGE: 2 of 4**

engineering is complete. The original estimate of costs to complete the preliminary engineering and design phase services for this project was initially underestimated.

The original Request For Qualifications (RFQ) for this project was issued requesting preliminary, design, construction and warranty phase services to result in a complete project to replace all filter valves and actuators, evaluate the condition of the filter infrastructure, provide automation of the filters, and evaluate and recommend modifications to enhance the treatment process to improve the system maintainability and reliability, all to be completed in accordance with available funding and approved cash flows for the project. Lockwood, Andrews and Newnam, Inc. (LAN) was selected to provide all engineering services to evaluate the plant's filtering system and recommend modifications to enhance the filter treatment process. However, the initial contract negotiations with LAN determined that the scope for this project had to be reduced considerably from that identified in the original RFQ to ensure the project could be completed within the available and approved funding. Therefore, the evaluation of the filter process improvements, automation of the filters, and replacement of the influent and waste valves to each filter were eliminated from this project and will be considered in future projects under a new RFQ.

The consultant has prepared a Preliminary Engineering Report, which has been reviewed and approved by Austin Water Utility. This Preliminary Engineering Report recommends necessary improvements and modifications to replace the backwash, surface wash, effluent and drain filter valves, replace actuators to the influent, waste, backwash and surface wash valves, remove surface corrosion and add a corrosion protection system to affected filter piping and replace the backup backwash pump, which will allow the plant to maintain the operational reliability of its filtering system.

This request will allow for the negotiation and execution of a supplemental amendment to the Professional Services Agreement for additional design phase, construction phase and warranty phase engineering services to result in a completed project for the improvements recommended in the Preliminary Engineering Report. The original award by Council in the amount of \$600,000 was intended to provide for preliminary engineering and design phase services with further intentions to subsequently request Council authorization for construction phase engineering services, and additional design phase engineering services as necessary. It is anticipated that this request will provide for a completed project. All services requested herein are within the scope of the original RFQ issued for the project.

AUTHORIZATION HISTORY

<u>AMOUNT</u>	<u>DATE -- DESCRIPTION</u>
\$600,000.00	01/13/05 (Council) -- Preliminary and Design Phase Engineering Services
\$42,824.59	11/10/05 (Administrative Authority) -- Amendment for Design Services
\$1,127,083.20	Proposed (Council) -- Amendment for Additional Design Services, Bid Document Preparation and Construction Phase Services.
<u>\$1,769,907.79</u>	<u>Total Contract Authorization</u>

CONTRACT HISTORY

RCA Serial#: 10543 Date: 01/12/06 Original: Yes
Disposition:

Published:
Adjusted version published:



**Professional Services Amendment
CITY OF AUSTIN
RECOMMENDATION FOR COUNCIL ACTION**

**AGENDA ITEM NO.: 13
AGENDA DATE: Thu 01/12/2006
PAGE: 3 of 4**

<u>AMOUNT</u>	<u>DATE -- DESCRIPTION</u>
\$243,708.88	05/27/05 -- Original Professional Services Agreement for Preliminary Design Services
\$399,115.71	11/10/05 -- SA #1 -- Supplemental Amendment for Design Phase Services
\$1,127,083.20	Proposed -- SA #2 -- Supplemental Amendment for Additional Design Services, Bid Document Preparation and Construction Phase Services.
<u>\$1,769,907.79</u>	<u>Total Contract Expenditures</u>

Participation goals stated in the original approved compliance plan for the agreement were 1.70% African American (MB); 9.50% Hispanic (MH); 0.0% Native American (MN); 4.70% Asian American (MA); and 14.20% WBE. Participation for this amendment:

NON M/WBE TOTAL – PRIME	\$639,904.70	56.77%
Lockwood, Andrews and Newnam, Inc., Austin, TX	\$639,904.70	56.77%
MBE TOTAL – SUBCONSULTANTS	\$144,173.00	12.79%
<u>Asian-American Subtotal</u>	<u>\$25,000.00</u>	<u>2.22%</u>
Hejl, Lee & Associates, Inc., Austin, TX (civil engineering)	\$25,000.00	2.22%
<u>African American Subtotal</u>	<u>\$129,745.00</u>	<u>11.51%</u>
CPM Engineering Consultants, Austin, TX (project scheduling and construction inspection)	\$129,745.00	11.51%
<u>Hispanic Subtotal</u>	<u>\$14,428.00</u>	<u>1.28%</u>
Jose I. Guerra, Inc., Austin, TX (structural design and construction phase services)	\$14,428.00	1.28%
WBE TOTAL – SUBCONTRACTORS	\$318,005.58	28.21%
Harutunian Engineering, Inc., Austin, TX (instrumentation and electrical design and construction phase services)	\$318,005.58	28.21%

Overall participation for the entire project, including this amendment:

PRIME:

63.31% Non M/WBE.

SUBCONSULTANTS:

7.67% MB; 0.81% MH; 0.0% MN; 2.20% MA; 26.01% WBE; and 63.31% Non M/WBE.

RCA Serial#: 10543 Date: 01/12/06 Original: Yes

Published:

Disposition:

Adjusted version published:



**Professional Services Amendment
CITY OF AUSTIN
RECOMMENDATION FOR COUNCIL ACTION**

**AGENDA ITEM NO.: 13
AGENDA DATE: Thu 01/12/2006
PAGE: 4 of 4**

TOTAL:

7.67% MB; 0.81% MH; 0.0% MN; 2.20% MA; 26.01% WBE; and 63.31% Non M/WBE.

CIP FISCAL NOTE

DATE OF COUNCIL CONSIDERATION:
WHERE ON AGENDA:
DEPARTMENT:

12/15/05
Resolution
Austin Water Utility

DESCRIPTION:

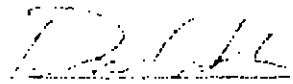
Authorize negotiation and execution of an amendment to the professional services agreement with LOCKWOOD, ANDREWS AND NEWNAM, INC., (NON M/WBE 64.72%), Austin, TX, for engineering services for the Davis Water Treatment Plant Filter Process Improvements and Valve Replacements in an Amount not to exceed \$1,127,083.20 for a total contract amount not to exceed \$1,769,907.79

FINANCIAL INFORMATION:

Parent Project Name	Water Unfunded Future
Project Authorization	2005-06 Approved Capital Budget
Funding Source	Commercial Paper
Number	3960 227 1019

Current Appropriation	\$ 352,445,739.00
Unencumbered Balance	133,937,769.70 *
Amount of This Action	<u>(1,127,083.20)</u>
Remaining Balance	<u>\$ 132,810,686.50</u>
Current Available Balance	\$ 140,119,495.39
Less Outstanding Commitments	<u>(6,181,725.69)</u>
Estimated Unencumbered Balance	<u>\$ 133,937,769.70 *</u>

Utility Finance


David Andersen, Utility Finance Manager

Date

12/15/05

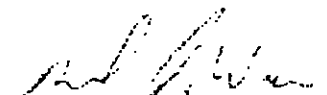
REF. # 3960 227 7140

No. 121305-D
WATER AND WASTEWATER COMMISSION RESOLUTION
**AN AMENDMENT TO THE PROFESSIONAL SERVICES AGREEMENT WITH
LOCKWOOD, ANDREWS AND NEWNAM, INC., IN AN AMOUNT NOT TO EXCEED
\$1,127,083.20 FOR A TOTAL CONTRACT AMOUNT NOT TO EXCEED \$1,769,907.79**
DECEMBER 13, 2005
REGULAR MEETING
VOTE: 7-0-1-1

Motion made by: Friese
Commissioners Consenting: Warner, Raun, Scott-Ryan, Chan, Gonzalez, Pool
Commissioners Dissenting:
Commissioners Abstaining: Lee
Commissioners Absent: Coleman

The Water and Wastewater Commission recommends the Council authorize execution of an amendment to the professional services agreement with LOCKWOOD, ANDREWS AND NEWNAM, INC. (NON MWBE 64-728-1), Austin, TX, for engineering services for the Davis Water Treatment Plant Filter Process Improvements and Valve Replacements in an amount not to exceed \$1,127,083.20 for a total contract amount not to exceed \$1,769,907.79.

Commissioner Lee abstained on this item due to a potential conflict of interest.


Michael Warner, Chairperson
Water and Wastewater Commission

12/14/05
Date