



CITY OF HAYWARD
AGENDA REPORT

AGENDA DATE 05/06/03
AGENDA ITEM 5
WORK SESSION ITEM _____

TO: Mayor and City Council
FROM: Director of Public Works
SUBJECT: Water System Chloramine Conversion Project – Authorization for Execution of an Agreement for Professional Engineering Services

RECOMMENDATION:

It is recommended that the City Council adopt the attached resolution, which authorizes the City Manager to execute an agreement with Brown and Caldwell, for professional engineering services to prepare plans and specifications for the Water System Chloramine Conversion Project, in an amount not to exceed \$650,000.

BACKGROUND:

The City purchases all of its potable water from the San Francisco Public Utilities Commission (SFPUC), and the SFPUC is planning to convert from chlorine to chloramines as its primary means of disinfection in December 2003. The conversion will allow the SFPUC to control the concentration of chlorine-related disinfection by-products (DBPs) in the water and will provide a more stable and persistent residual. Chloramines, however, present new concerns regarding the potential for increased distribution system component failure and water quality problems, such as nitrification, which can result in a decrease in residual and positive bacterial counts.

The Water System Chloramine Conversion Project consists of two projects — Reservoir Piping Modifications for Chloramine Conversion, and Flow Controls at Aqueducts. The primary goals of these projects are to modify the existing water system and correct the identified potential deficiencies in the existing water distribution systems, in order to minimize the potential negative effects from the SFPUC's Chloramine conversion.

Consultant Selection:

Four consultants were requested to submit proposals for the City's consideration. Brown and Caldwell was selected as the most qualified firm. The selection was based on a review of: (1) the relevant experience of each firm; (2) the experience and qualifications of the project manager and design team of each firm; (3) the method of work proposed by each firm; and (4) the resources, project controls, and quality assurance of each firm.

Brown and Caldwell's fee and labor-hours were competitive with other consultants. Based on an analysis of the number of staff-hours proposed by other consultants, staff has concluded that the final negotiated not-to-exceed cost of \$650,000 from Brown and Caldwell is reasonable for the scope of services required. Due to the nature of the work, there is no opportunity for sub consultants to be used and, therefore, Brown and Caldwell was not able to achieve MBE/DBE participation.

Brown and Caldwell will first prepare the preliminary design and cost estimate for the capital improvements and present the results in a technical memorandum or initial report for staff's review. Based on staff's direction, Brown and Caldwell will then proceed with detailed design, plans and specifications, and cost estimates for the projects.

Project Cost:

Initial Design Report	\$ 150,000
Design & Survey	500,000
Construction Cost	1,820,000
Inspection & Administration	<u>100,000</u>
Total:	\$ 2,570,000

The construction cost is a planning level estimate. The actual construction cost may vary depending on the capital improvements as recommended in the final design.

Funding:

The 2002-03 Five Year Capital Improvement Program (CIP) includes a total of \$2,570,000 for the improvements in two separate projects. Of that, \$1,250,000 is budgeted in the Reservoir Piping Modifications for Chloramine Conversion project in the Water System Replacement Fund, and \$1,320,000 in the Flow Controls at Aqueducts project in the Water System Capital Improvement Fund.

Schedule:

The following tentative project schedule has been developed for these projects:

Begin Evaluation and Design	May 2003
Call for Bids	September 2003
Begin Construction	October 2003
Construction Completion for facilities needed prior to chloramine conversion	December 2003
Project Construction Completion	February 2004

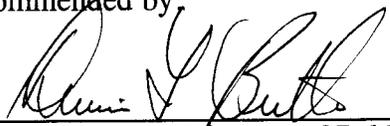
Any critical capital improvements as identified by the consultants will be completed prior to the SFPUC's Chloramine conversion in December 2003, with the rest of the recommended capital improvements completed by the end of February 2004.

Prepared by:



Alex Ameri, Deputy Director of Public Works

Recommended by:



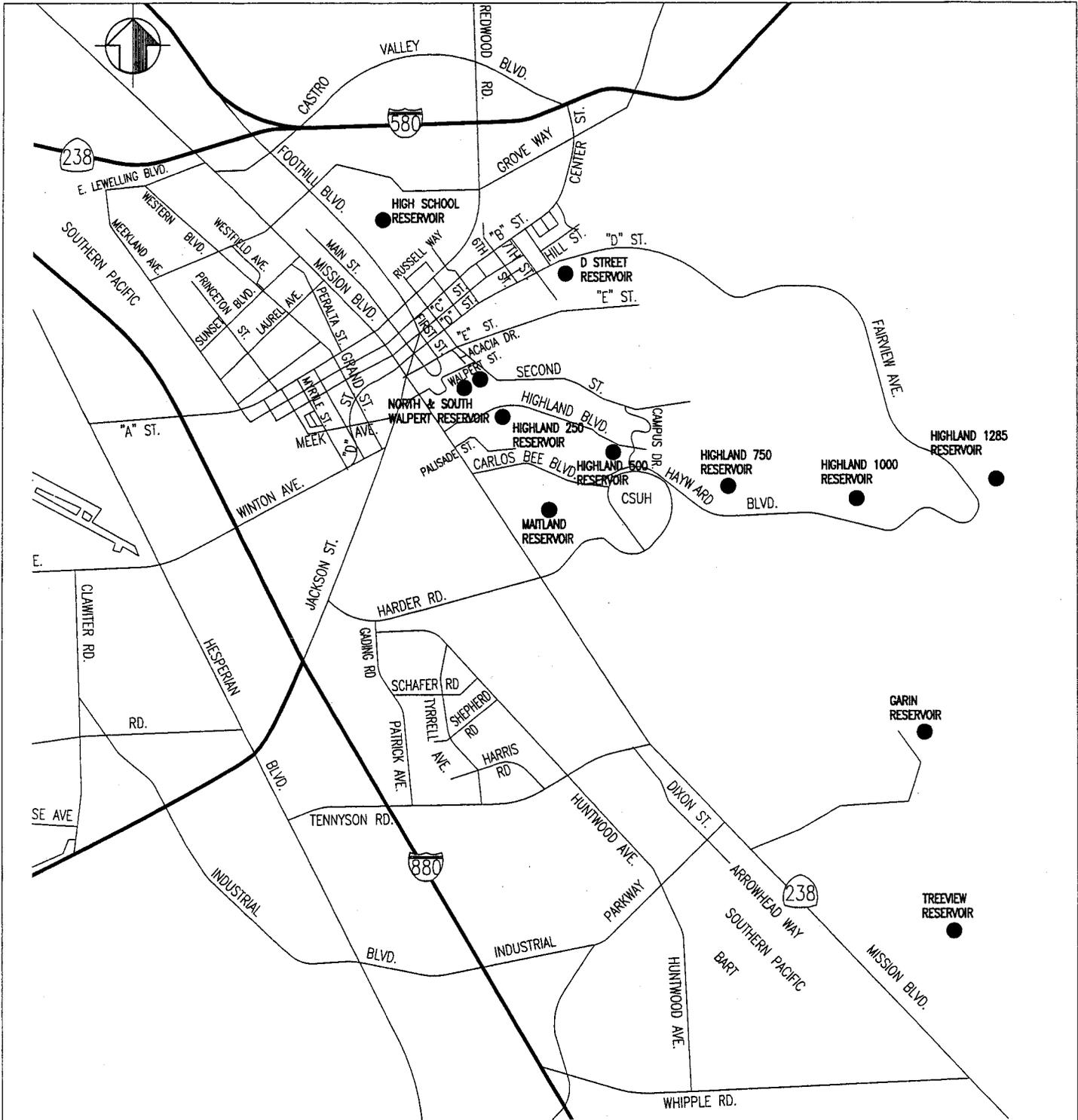
Dennis L. Butler, Director of Public Works

Approved by:



Jesús Armas, City Manager

Attachment: Exhibit A - Project Location Map



LEGEND: ● PROJECT LOCATION

PROJECT LOCATION MAP

**WATER SYSTEM CHLORAMINE CONVERSION PROJECT
PROJECT NOS. 622-7022 & 623-7158**

DRAFT NH
4/28/03

HAYWARD CITY COUNCIL

RESOLUTION NO. 03-

Introduced by Council Member _____

RESOLUTION AUTHORIZING THE CITY MANAGER
TO EXECUTE AN AGREEMENT FOR PROFESSIONAL
ENGINEERING SERVICES BETWEEN THE CITY OF
HAYWARD AND BROWN AND CALDWELL

BE IT RESOLVED by the City Council of the City of Hayward that the City Manager is hereby authorized and directed to negotiate and execute on behalf of the City of Hayward an agreement for professional engineering services with Brown and Caldwell, to prepare plans and specifications for the Water System Chloramine Conversion Project, Project Nos. 7022 and 7158, in an amount not to exceed \$650,000, in a form to be approved by the City Attorney.

IN COUNCIL, HAYWARD, CALIFORNIA _____, 2003

ADOPTED BY THE FOLLOWING VOTE:

AYES: COUNCIL MEMBERS:
MAYOR:

NOES: COUNCIL MEMBERS:

ABSTAIN: COUNCIL MEMBERS:

ABSENT: COUNCIL MEMBERS:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

City Attorney of the City of Hayward