

**DATE:** March 3, 2009

**TO:** Mayor and City Council

**FROM:** Director of Public Works

**SUBJECT:** West Tennyson Sewer Improvements – Cascade Diverter: Approval of Plans and Specifications and Call for Bids

### **RECOMMENDATION**

That Council adopts the attached resolution approving the plans and specifications for the West Tennyson Sewer Improvements – Cascade Diverter, and calls for bids to be received on April 9, 2009.

### **BACKGROUND**

In 2002, CH2MHill completed a Wastewater Collection System Master Plan Update that identified existing and future capacity issues in the two parallel West Tennyson trunk sewer mains between the Tennyson Lift Station at Patrick Avenue and Hesperian Boulevard. These trunk sewer mains were originally constructed in 1952 and 1984, respectively. Council may recall that in 1999, a second 24-inch trunk sewer main was added from Tyrell Avenue to the Tennyson Lift Station. The 2002 Plan Update recommended upsizing or reconstructing significant portions of the existing two trunk sewer mains on either side of I-880, to address capacity issues downstream of the lift station.

The first phase of the project included the design consultant's review of CH2MHill's flow model and recommended sewer improvements, and a pre-design to identify the City's options of various pipe replacement/rehabilitation methods (trenchless and/or conventional open-cut) to achieve the needed improvements. Assuming there was no significant change in the project, subsequent phases were to include meetings with businesses and residents to explain the project and address their concerns; preparation of bid documents including plans, specifications, estimate of probable construction cost, and traffic control plans to minimize the project's impact on traffic; securing a Caltrans encroachment permit for work within the I-880 right-of-way; and the design consultant's engineering services during the construction phase.

On March 27, 2007, Council authorized the City Manager to execute an agreement with Harris and Associates for professional services. The agreement contained a not-to-exceed limit of \$450,000.

## DISCUSSION

During the consultant's review of the wastewater flow model and proposed sewer improvements, it was determined that (1) flow from the Underwood sewer main was the primary cause of the predicted flow problems in the West Tennyson Road sewer mains and (2) the proposed improvements to the sewer mains in West Tennyson Road would result in only minor improvements to the future flow conditions in the sewer mains. The consultant proposed an alternative solution to construct a 15-inch relief sewer to connect to the 18-inch sewer at Underwood Avenue and divert Cascade Street wastewater flow westward to the 27-inch Crosstown Sewer Interceptor near Regal Avenue and Eldridge Avenue (See Exhibit A).

City staff reviewed and approved the proposed alternative design and, accordingly, revised the scope of work in the agreement with the consultant. The revised project will have significantly less impact on businesses and residences, and is estimated to cost less than one-half of the estimated original cost of \$5,500,000.

The revised project consists primarily of installation of approximately 2,600 feet of new 15-inch sanitary sewer pipe on Cascade Street from Underwood Avenue to Regal Avenue; on Regal Avenue from Cascade Street to Eldridge Avenue; and on Eldridge Avenue to the Eden Greenway. The pipe will be installed by open-trench methods. The project also includes construction of new sanitary sewer manholes and modifications to existing City storm drain structures.

## ENVIRONMENTAL REVIEW

This project is categorically exempt from environmental review under the California Environmental Quality Act (CEQA). The Public Resource Code states that CEQA does not apply to any project of less than one mile in length within a public street or highway or any other public right-of-way, for the installation of a new pipeline, or the maintenance, repair, restoration, reconditioning, replacement, removal, or demolition of an existing pipeline of any length.

## FISCAL AND ECONOMIC IMPACT

The estimated project costs are as follows:

Design & Consulting Services (Consultant)	\$ 350,000*
Bid & Engineering Services During Construction (Consultant)	100,000
Construction Contract	1,300,000
Inspection & Administration (City)	100,000
<b>Total:</b>	<b>\$ 1,850,000</b>

\* Design costs for Cascade Relief Sewer include preliminary and initial design phases of the original W. Tennyson Rd. Sewer Improvements.

The FY 2009 Capital Improvement Program includes a total of \$2,200,000 in the Sewer Capital Improvement Fund for the design and construction of this project.

## PUBLIC CONTACT

Notices will be provided to residents, property owners, and business owners who may be affected by the construction, to inform them of the nature and purpose of the work, potential impacts, and a City contact for additional information. A second notice will be provided when the contractor's work schedule is defined and specific dates for street closures can be established.

## CONSTRUCTION SCHEDULE

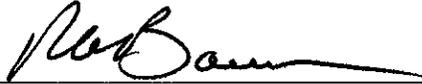
The following tentative project schedule has been developed for this project:

Advertising	March 5, 2009
Open Bids	April 7, 2009
Award Construction Contract	April 21, 2009
Begin Construction	May 11, 2009
Construction Completion	August 10, 2009

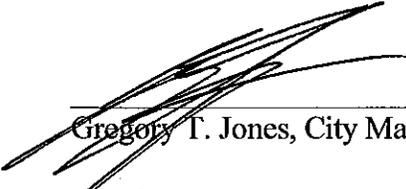
Prepared by:

  
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Alex Ameri, Deputy Director of Public Works

Recommended by:

  
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Robert A. Bauman, Director of Public Works

Approved by:

  
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Gregory T. Jones, City Manager

Attachments:

Exhibit A: Project Location Map  
Draft Resolution

**DUE TO THE COLOR OF EXHIBIT A,  
IT HAS BEEN ATTACHED AS A SEPARATE LINK**



NOES: COUNCIL MEMBERS:  
ABSTAIN: COUNCIL MEMBERS:  
ABSENT: COUNCIL MEMBERS: None

ATTEST: \_\_\_\_\_  
City Clerk of the City of Hayward

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney of the City of Hayward