

City of Culver City, California
City Council Agenda Item Report

Meeting Date: 3/23/09		Item Number: <u>C-7</u>	
AGENDA ITEM: Approval of Plans and Specifications and Authorization to Advertise for Bids for Sewer Rehabilitation Projects: Sewer Main in Farragut Drive (Jasmine Avenue to Overland Avenue) and Elenda Street (Washington Boulevard to Culver Boulevard), P-872; Sewer Main In Easement between Madison Avenue and Lincoln Avenue, P-893; Sewer Main in Easement between Baldwin Avenue and La Salle Avenue, P-894; Sewer Main in Tellefson Road and Ranch Road , P-904			
Contact Person/Dept.: Hong Wang/PW		Phone Number: 310.253.5604	
Fiscal Impact: Yes ☒ No ☐		General Fund: Yes ☐ No ☒	
Public Hearing: ☐		Action Item: ☐ Attachments: ☒	
Public Notification: Master E-Mail Notification List (03/18/09); Dudek, telephoned on 3/18/09.			
Department Approval: Charles D. Herbertson (03/12/09)		City Attorney Approval: Carol Schwab (by H. Baker) (03/17/09)	
Chief Financial Officer Approval: Jeff Muir (by N. Kimball) (03/18/09)		City Manager Approval: Jerry B. Fulwood (03/18/09)	
<u>RECOMMENDATION:</u> Staff recommends the City Council approve the final plans and specifications and authorize the advertising for construction bids for Sewer Rehabilitation Projects: Sewer Main in Farragut Drive (Jasmine Avenue to Overland Avenue) and Elenda Street (Washington Boulevard to Culver Boulevard), P-872; Sewer Main In Easement between Madison Avenue and Lincoln Avenue, P-893; Sewer Main in Easement between Baldwin Avenue and La Salle Avenue, P-894; Sewer Main in Tellefson Road and Ranch Road, P-904. <u>BACKGROUND:</u> Most of the sewer mains in this group of projects are identified as high priority repairs in the City's Sewer Video and Condition Assessment Report dated June 29, 2004. Constructed between 1910 and the 1940's, these aging sewer mains exhibit root damage, cracked pipes, protruding laterals, and offset joints. Due to the fact that several of the sewer mains are located along the rear property line easements where they are difficult to access and maintain, Public Works has been investigating innovative approaches and methods to rehabilitate the sewer mains with minimum impacts on private properties. On July 28, 2008, the City Council awarded the design contract to Dudek for the sewer rehabilitation project.			

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DISCUSSION:

Dudek completed the design and preparation of the plans and specifications for the sewer rehabilitation projects.

After the study of the latest Closed Circuit Television (CCTV) inspection of the existing sewer mains, it was determined that the sewer pipes have structural integrity, though there are signs of root damage and joint problems. It is recommended that all the sewer mains should be rehabilitated with an innovative liner system. The lining process relies on trenchless sewer reconstruction technology that does not involve time consuming, expensive and disruptive open excavation. This is especially important since several of the lines scheduled for rehabilitation are located in the rear property line easement where access for construction is very difficult. Instead of excavation and replacement of the existing sewer main, the cured-in-place lining process provides for the insertion of a special lining material inside the existing pipe. The new liner creates a watertight, smooth-surface that is structurally sound and long lasting within the existing sewer main pipe. All the existing manholes will be rehabilitated either through polyurethane spray-on coating or a structural ploytriplex fiberglass lining system.

Based on review of the sewer videos, it appears that approximately 50% of the active sewer laterals studied have various degrees of root intrusion with some of the roots extending into to City's sewer main lines. As part of this project, sewer laterals with root intrusion or damaged lateral connections to the sewer main pipes will receive a "top hat" trenchless lateral lining system at the connections. This will help reduce root intrusion in the future.

FISCAL ANALYSIS:

The adopted 2008/09 CIP budget includes a combined \$1,460,000 of Sewer Enterprise Funds for these four sewer rehabilitation CIP projects. This amount includes engineering, construction and all contingencies. The engineering estimate for this construction contract is approximately \$1,270,000. The design cost is approximately \$150,000, and the construction management and inspection cost is estimated to be \$100,000. The project budget is \$50,000 less than estimated amount required for construction. At the time of construction contract award, a budget amendment may be necessary based on the bid amount. Any additional amount that may be necessary will be funded from the Sewer Enterprise Fund.

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ATTACHMENTS:

1. Location maps

MOTION:

That the City Council:

Approve the plans and specifications and authorize advertising for construction bids for the Sewer Rehabilitation Projects: Sewer Main in Farragut Drive (Jasmine Avenue to Overland Avenue) and Elenda Street (Washington Boulevard to Culver Boulevard), P-872; Sewer Main In Easement between Madison Avenue and Lincoln Avenue, P-893; Sewer Main in Easement between Baldwin Avenue and La Salle Avenue, P-894; Sewer Main in Tellefson Road and Ranch Road, P-904.