

City of Culver City, California
City Council Agenda Item Report

Meeting Date: 05/29/07		Item Number: <u>C-6</u>	
AGENDA ITEM: Approval of an Agreement with SanCon Engineering Inc. to Rehabilitate Sewer Manholes Throughout the City.			
Contact Person/Dept. Eric Mirzaian/PW		Phone Number: (310) 253-6410	
Fiscal Impact: Yes ☒ No ☐		General Fund: Yes ☐ No ☒	
Public Hearing: ☐		Action Item: ☒	Attachments: ☒
Public Notification: Master Notification List (05/24/07) and SanCon Engineering by e-mail 05/23/07).			
Department Approval: Charles D. Herbertson		City Attorney Approval: Carol Schwab (by H. Iker) (05/16/07)	
5/08/07			
City Controller Approval: Marlee Chang (05/21/07)		City Manager Approval: Jerry B. Fulwood (05/23/07)	

RECOMMENDATION:

Staff recommends the City Council approve an agreement with SanCon Engineering Inc. (SanCon) to rehabilitate sewer manholes throughout the City.

BACKGROUND:

A sewer manhole is a maintenance access point from the surface of the ground to the sewer main. Sewer manholes are primarily constructed of brick and mortar and have a steel ladder. Bricks are inert and do not deteriorate, however, the hydrogen sulfide gases generated by the sewage flow will cause the mortar to disintegrate between the bricks. Without the bonding of the mortar to the bricks, structural failure of the manhole could result causing bricks to fall into the sewer main leading to blockage of sewage flow and, in the worst case scenario, collapse of the street above the manhole.

DISCUSSION:

Sewer manholes are commonly rehabilitated in two methods. The first method includes spraying an epoxy resin on the interior of the manhole. The epoxy resin is a short term rehabilitation strategy and is inexpensive. The second method includes installing a cured-in-place multi-layer fiberglass in the interior of the manhole. This method is more expensive but is durable and longer lasting than the first method. The latter method is proposed to be utilized for this project.

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The work will include the rehabilitation of existing concrete and brick sanitary sewer manholes to rebuild strength and eliminate possible infiltration, exfiltration, inflow, root intrusion, and future deterioration of the concrete due to the sewer environment.

Staff has prioritized the 125 manholes selected for this project into five "priority groups", with 25 manholes per group. Below is SanCon's cost proposal

Priority Group 1 (highest priority) (frames/covers)	\$155,340 (rehabilitation)	\$9,900
Priority Group 2 (frames/covers)	\$165,710 (rehabilitation)	\$2,200
Priority Group 3 (frames/covers)	\$217,620 (rehabilitation)	\$5,500
Priority Group 4 (frames/covers)	\$143,440 (rehabilitation)	\$4,400
<u>Priority Group 5 (lowest priority) (frames/covers)</u>	<u>\$196,130 (rehabilitation)</u>	<u>\$5,500</u>
<i>TOTAL</i>	<i>\$878,240</i>	<i>\$27,500</i>

On February 13, 2007, a Request for Proposal (RFP) was released to qualified contractors. On February 22, 2007, a mandatory pre-proposal meeting was scheduled. SanCon was the only contractor that attended the meeting.

SanCon submitted the following proposal for this project on March 15, 2007:

Rehabilitation of manholes 4' or less in diameter.....	\$780 per vertical foot
Rehabilitation of manholes 5' in diameter.....	\$830 per vertical foot
Rehabilitation of manholes 6' or greater in diameter.....	\$900 per vertical foot
Replacement of manhole frame and cover.....	\$1,100 each location

SanCon's proposal includes traffic control, field measurements, surface preparation, removal of existing steps, mortar repair and chemical grout injection to prevent infiltration.

Staff contacted several municipalities that have utilized SanCon for similar projects and determined the proposed cost indicated above is comparable to the cost expended by these other municipalities for their respective projects. SanCon successfully completed these projects.

Staff is requesting authorization to enter into an agreement with SanCon to rehabilitate the manholes only for Priority Group 1 at a not-to-exceed cost of \$165,240 plus a 15% contingency.

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FISCAL ANALYSIS:

Sufficient fund has been allocated in the Sewer Capital Improvement Fund account 20400230 (Sewer Line Replacement Project).

ATTACHMENTS:

1. SanCon Engineering Inc. proposal
2. List of Locations of Priority One Manholes to be Rehabilitated

MOTIONS:

That the City Council:

1. Approve an agreement with SanCon Engineering Inc. to rehabilitate 25 sewer manholes identified as "Priority Group 1" throughout the City at a cost not to exceed \$165,240;
2. Authorize the Public Works Director/City Engineer to negotiate change orders, if necessary, not to exceed \$25,000; and,
3. Authorize the City Attorney to prepare the necessary documents and authorize the City Manager to execute such documents on behalf of the City.