

HEBER PUBLIC UTILITY DISTRICT

REPORT TO BOARD OF DIRECTORS

MEETING DATE: March 19, 2015

FROM: Laura Fischer, General Manager

SUBJECT: Authorize the Sewer Manhole Rehabilitation and Repair Project

ISSUE:

Shall the Board of Directors authorize the Sewer Manhole Rehabilitation and Repair Project?

GENERAL MANAGER'S RECOMMENDATION:

It is recommended that the Board of Directors authorize the sewer manhole rehabilitation and repair project.

FISCAL IMPACT:

Estimated Total Project Cost \$34,630.

Expenditures in this Fiscal Year 2014-15 are estimated to be \$8,480 which will not require a budget modification. The remaining cost estimated at \$26,150 must be included in the 2015-16 FY Capital Improvement Budget.

BACKGROUND:

The sewer manholes included in this project are located directly in front of the sewer treatment plant on Rockwood Road. These manholes are on the main collection line for the entire Heber service area and are critical to the system. They are in poor condition and need to be rehabilitated and/or repaired.

Staff inspected several manholes in our collection system and found that these three need attention within the next six-nine months. Please see the attached map of the sewer collection system and manholes that were inspected by staff. The manholes that are included in this project are numbered 1, 2 and 3 on the map.

DISCUSSION:

The sewer collection system is vital to the HPUD sewer treatment process. Manholes is the top opening to an underground vault that is an access point for sewer lines and line connections. The three manholes are located in public right-of-way, just off of the paved street. The manholes are corroded from years of exposure to sewer gases and from the result of sewer flows entering the vault at a higher elevation and dropping down to a lower elevation before entering the Wastewater Treatment Plant.

Staff and the District engineer agree that these three manholes should be rehabilitated and repaired within the next six-nine months. This is a relatively small project, but staff

would time the construction and payment for the project so that the greater expenditures were included in the next Fiscal Year Budget.

The Scope of Work for the Rehabilitation of the Manholes is as follows:

1. Remove manhole steps, as applicable.
2. Remove existing coating, as applicable.
3. Hydroblast all interior surfaces to be Coated with a Polyurethane Coating.
4. Remove and dispose of all existing manhole material removed during the hydroblasting process.
5. Restore the deteriorated manhole surface material removed during the hydroblasting process with a high strength mortar.
6. Sawcut lining terminating edges.
7. Apply a 1-3 mil thickness epoxy primer.
8. Topcoat rehabilitated surfaces with a 125 mil thickness of Polyurethane Coating. The areas to be rehabilitated and lined will extend from immediately below the manhole ring to the flowline.
9. Spark test the polyurethane liner at 15,000 volts and make repairs if necessary.

The anticipated construction cost associated with the rehabilitation of manholes 1, 2 and 3 per the attached map at Rockwood Road near the WWTP entrance gate is as follows:

1. Manhole Number 1	\$8,300
2. Manhole Number 2	\$7,875
3. Manhole Number 3	\$5,675
4. Traffic Control	\$2,500
5. County of Imperial Encroachment Permit Fee	\$1,500
6. Miscellaneous	\$3,000
Total Anticipated Construction Cost	\$28,850
Total Engineering Services Cost	\$5,780
TOTAL PROJECT COST	\$34,630

The Project will need to be advertised for bidding the following Engineering Scope of Services apply:

1. Prepare Legal Advertisement, Instruction for Bidders Section, Proposal Forms, Contract Documents, General Conditions, Technical Conditions and Special Conditions. Traffic Control Plans and the Manhole Site Plan will be prepared on 11 inch x 17 inch drawings and included with the Special Conditions Section of the Specifications. A County of Imperial Encroachment Permit Application will be prepared during the design phase. The County of Imperial Public Works Department will require the contractor obtain the Encroachment Permit and pay for the associated Encroachment Permit Fee. HPUD

will be required to pay the Encroachment Permit Application Submission Fee.

2. Conduct Bidding Process. Place Legal Advertisement in the Imperial Valley Press on consecutive days of the week, contact know contractors capable in performing the manhole rehabilitation work, answer contractor questions, meet contractors at the project site to observe existing manhole conditions as required, issue addendums as required and assist in the opening of proposals.
3. Assist with the processing of the contract documents up to the issuance of the Notice to Proceed. Insure the traffic control signs and devices are in place prior to the commencement of construction in conformance with the County of Imperial Encroachment Permit. Contact the County of Imperial Public Works Department 72 hours prior to the commencement of construction. Assist with the processing of the contractors payment request. Assist with the filing of the Notice of Completion at the County of Imperial Records Office.

CONCLUSION:

It is in the best interest of the Heber Public Utility District's sewer collection system and the overall operations of the District to rehabilitate and/or repair the three manholes which are located just outside of the Wastewater Treatment Plant as shown on the attached map.

Staff recommends authorizing the manhole rehabilitation/repair project as described with the project funding to be included in the FY 2015-16 budget.

ALTERNATIVES:

- 1) Do not authorize the sewer manhole project. This alternative will require the project be considered again during the budget process.
- 2) Provide alternate direction to staff regarding the rehabilitation and/or repair of the sewer manholes.

Respectfully Submitted,

Laura Fischer,
General Manager

Attachment: Map of the Sewer Lines/Manholes



Manhole	Depth	Width	Notes	Manhole	Depth	Width	Notes
1	15'	72"		8	11'	48"	
2	12'	60"		9	11'	48"	7" High Grade Ring and Manhole Cover are 8" offset from Manhole
3	13'	48"		10	23'	60"	Unable to open Manhole, Not observed, Dimensions assumed
4	12.5'	48"		11	23'	60"	Unable to open Manhole, Not observed, Dimensions assumed
5	12'	48"		12	23'	60"	
6	12'	48"		13	8'	48"	
7	12'	48"					