



March 20, 2024

TO: Utilities Advisory Committee

FROM: Margaret Falkner, Utility Systems Manager
Ron Munds, General Manager

SUBJECT: **Agenda Item 4 – 03/20/2024 UAC Meeting**
Proposed 2024-25 Valve Replacement Program

RECOMMENDATION

Staff recommend that the Utilities Advisory Committee adopt the following Motion:

Motion: I move that the Utilities Advisory Committee conceptually approve the phasing of the Valve Replacement Project as presented.

DISCUSSION

At the February 21st UAC meeting, the committee reviewed and discussed the District’s five-year Capital Improvement Plan. Staff was requesting input and direction on how to schedule projects so the capital outlay cost projections for projects were consistent with the cashflow needs for operations while maintaining reserves for unforeseen emergencies.

LOCSO Water Resource Operators (WRO) have identified 66 valves that are in need of replacement. In the District asset inventory database, the valves are categorized as inoperable, very sticky and sticky.

The 2021 Capital Improvement Plan estimated the replacement costs at \$560,000. Staff requested an update of those costs from Wallace Group because of the significant increase in cost seen over the past two years. The revised estimate for 2024 is now \$643,000.

The following is the breakdown of all three categories of valves needing replacement:

2024 Costs: All Valves			
No. of Valves	Size	Cost per	Cost
2	4"	\$7,000	\$14,000
39	6"	\$9,500	\$370,500
9	8"	\$10,000	\$90,000
15	10"	\$10,500	\$157,500
1	12"	\$11,000	\$11,000
66	Total Cost		\$643,000

As discussed at the February 21st UAC meeting, staff is recommending that the valve replacement program be phased over two years. With that in mind, staff is proposing that Phase 1 of the project replace the inoperable and very sticky valves. The WRO’s have identified 11 valves that can be replaced in-house by the crew. They are very sticky valves and are in the public right-of-

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way in unpaved areas. The following two tables summarize the number of valves recommended in Phase 1:

2024 Costs : Inoperable Valves			
No. of Valves	Size	Cost per	
0	4"	\$7,000	
8	6"	\$9,500	\$76,000
1	8"	\$10,000	\$10,000
7	10"	\$10,500	\$73,500
0	12"	\$11,000	
16	Total Cost		\$159,500

2024 Costs: Very Sticky Valves			
No. of Valves	Size	Cost per	
1	4"	\$7,000	\$7,000
10	6"	\$9,500	\$95,000
2	8"	\$10,000	\$20,000
1	10"	\$10,500	\$10,500
0	12"	\$11,000	
14	Total Cost		\$132,500

Since the WRO's will replace 11 valves, the revised number of very sticky valves to be replaced is as follows:

2024 Costs: Very Sticky Valves			
No. of Valves	Size	Cost per	
1	4"	\$7,000	\$7,000
8	6"	\$9,500	\$76,000
2	8"	\$10,000	\$20,000
0	10"	\$10,500	
0	12"	\$11,000	
11	Total Cost		\$103,000

2024 Costs: Very Sticky Valves - Revised			
No. of Valves	Size	Cost per	
0	4"	\$7,000	\$0
2	6"	\$9,500	\$19,000
0	8"	\$10,000	\$0
1	10"	\$10,500	\$10,500
0	12"	\$11,000	0
3	Total Cost		\$29,500

As indicated, the number of valves being replaced by the WRO's, reduces the cost of the entire project by \$103,000. The total Phase 1 budget is estimated at \$189,000 to replace just the inoperable and very sticky valves leaving \$351,000 remaining to complete the whole project.

Since the goal of doing two phases was to spread the costs over two years, staff is proposing to include a portion of the remaining valves in the Phase 1 project to balance the costs over the two-years.