

MINUTES OF A MEETING OF THE
ENGINEERING/EQUIPMENT COMMITTEE
OF THE VALLECITOS WATER DISTRICT
MONDAY, JANUARY 25, 2022, AT 3:00 P.M.
VIA TELECONFERENCE

Director Hernandez called the meeting to order at the hour of 3:02 p.m.

Present: Director Elitharp
Director Hernandez
Assistant General Manager Gumpel
Capital Facilities Senior Engineer Morgan
Capital Facilities Engineer Santos
Development Services Senior Engineer Lopez
Engineering Services Assistant Fretwell

PUBLIC COMMENT

None.

ITEM(S) FOR DISCUSSION

SEWER LINING AND REHAB 2021 UPDATE

Capital Facilities Engineer Santos provided an update on the Sewer Lining and Rehab Project. During scheduled cleanings over the last two years, the Collections Department has identified 44 segments, from manhole to manhole, that have deficiencies and must be rehabilitated to restore structural integrity and flow capacity. These 44 segments span 8,570 feet and are deficient due to various reasons including cracking, root intrusion, calcifying, corrosion, and offset laterals.

Capital Facilities Engineer Santos stated that the sewer lining and rehabilitation will be conducted using a trenchless method that installs cured-in-place pipe (CIPP). CIPP liners are fiberglass reinforced felt that are fused with resin. Once the liner is placed through the manhole and into the sewer main, it will be inflated and cured into place using steam or ultraviolet light. When completed, the sewer flow efficiency is restored, and the service life is extended by approximately 50 years. The CIPP liner method is cost effective because it eliminates the need to excavate, repave roads, and install traffic control. For areas that are difficult to access, the CIPP liner method is useful.

Economies of scale benefit the District when multiple sewer pipe segments are grouped together into one bid package. The cost stays low, near \$80 per linear foot, and bids are more competitive. The engineer's estimate is \$800,000. Bid advertisement begins January 26, and the award date is scheduled for March 16.

Assistant General Manager Gumpel stated that the segments with deficiencies are cross-checked with future development projects to eliminate segments that will potentially be improved upon by a developer.

During general discussion, Director Hernandez asked if this CIPP technology would effectively stop root intrusion. Capital Facilities Engineer Santos stated that by first cleaning the pipes and then using the liner, it would inhibit the roots from growing into the pipe again.

Director Elitharp asked if the liner would decrease the flow in the pipe. Capital Facilities Senior Engineer Morgan stated that even though the pipe diameter would decrease by a small amount, the new smooth surface would increase the flow and capacity.

CAPITAL IMPROVEMENT PROJECTS 2021 Q4 QUARTERLY UPDATE

Capital Facilities Senior Engineer Morgan briefly demonstrated where quarterly updates for the Capital Improvement Program (CIP) projects can be accessed on the District's website and the types of information that is available. Quarterly updates are posted on the District's webpage, <https://www.vwd.org/departments/engineering/capital-facilities>. He provided a presentation of the 14 active CIP projects from Quarter 4 of 2021 that are currently listed online.

Several projects were recently added to the list of active projects. The Las Posas 10" Water Main Replacement project and the Meadowlark Reclamation Facility's Sodium Hypochlorite Conversion project are currently in the design phase. The contract for the Sage Canyon Tank Refurbishment project was awarded in January and construction will begin in March. The Palos Vista Pump Station Motor Starters Upgrade project has been awarded. In March, the Meadowlark Reclamation Facility's Tertiary Structural Rehab and Repairs project will be awarded.

DEVELOPMENT PROJECT STATUS UPDATE

Development Services Senior Engineer Lopez provided a brief biannual update on development projects and explained that projects fall into three categories: 1) projects currently in active construction that are certain to be completed; 2) projects in the plan check process for which some will be moving to construction soon; and 3) planned projects which may or may not move forward into planning. The projects were presented on a map throughout the District, including a spreadsheet of anticipated water and sewer equivalent dwelling units (EDUs) and remaining capacity fees to be collected.

Development Services Senior Engineer Lopez stated that the remaining capacity fees to be collected for projects in construction total approximately \$3.9 million for water and \$2.6 million for sewer. Most of the capacity fees for construction projects have already been paid. For active projects in plan check, remaining capacity fees to be collected total approximately \$1.6 million for water and \$2.7 million for sewer. Lastly, the projects in early planning show proposed capacity of \$37.3 million for water and \$63.2 million for sewer. All estimates are based on the current 2022 capacity fee rates.

St. Paul Dr. 4-Lot Subdivision will be moving to construction soon as it just received approval for the construction agreement from the Board of Directors. A new Starbucks and Woodspring Hotel will also be moving to construction soon. The Sunrise-Orix project is anticipated to go before the Board of Directors in February or March for construction agreement approval. A water and sewer study was recently completed for the University District North City Phase A project, which includes a large 450 unit residential building near Cal State San Marcos, and is expected to move into the plan check phase soon.

OTHER BUSINESS

None.

ADJOURNMENT

There being no further business to discuss, the meeting was adjourned at the hour of 3:29 p.m.