



COUNCIL REPORT

DATE: January 24, 2023

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22—Various Actions**

RECOMMENDATION

1. Adopt a Resolution of the City Council of the City of Mountain View Adopting a Mitigated Negative Declaration for Annual Water Main Replacement, Project 19-21: Pressure Reducing Valve Installation on North Whisman Road and Evandale Avenue; Whitney Drive, Whitney Court, and Parker Court Water Main Replacements, in accordance with the California Environmental Quality Act, to be read in title only, further reading waived (Attachment 1 to the Council report).
2. Find that in accordance with the California Environmental Quality Act requirements, under California Code of Regulations Article 19, Section 15302(c), the California Environmental Quality Act does not apply to the replacement of existing water and sewer mains, and the replacement of the water and sewer mains in project locations not listed under Recommendation 1 is categorically exempt.
3. Appropriate and transfer \$1,440,000 from Miscellaneous Water Main/Service Line Replacement, Project 17-21, and \$940,000 from Miscellaneous Water Main/Service Line Replacement, Project 18-21, to Miscellaneous Water Main/Service Line Replacement, Project 19-21. (Five votes required)
4. Appropriate and transfer \$600,000 from Miscellaneous Storm/Sanitary Sewer Main Replacement, Project 17-22, and \$1,400,000 from Miscellaneous Storm/Sanitary Sewer Main Replacement, Project 18-22, to Miscellaneous Storm/Sanitary Sewer Main Replacement, Project 19-22. (Five votes required)
5. Approve plans and specifications for Annual Water and Sewer Main Replacement, Projects 19-21 and 19-22, and authorize staff to advertise the project for bids.
6. Authorize the City Manager or designee to award the construction contract to the lowest responsible bidder if the low bid is within the project budget.

7. Authorize the City Manager or designee to execute a professional services agreement with Tanner Pacific, Inc., to provide construction engineering services in a total not-to-exceed amount of \$485,000 for Miscellaneous Water Main/Service Line Replacement, Project 19-21, and Miscellaneous Storm/Sanitary Sewer Main Replacement, Project 19-22.

BACKGROUND

The City's Annual Water and Sewer Main Replacements Projects are infrastructure maintenance projects that replace aging and undersized water mains, sewer mains, services, and laterals. The water and sewer mains are selected for replacement based on the age of the pipe, maintenance records, failure history, and capacity considerations. Because water and sewer main projects generally attract the same type of utility contractors, they are typically combined in one construction contract to achieve economy of scale and administrative efficiency.

As the City completes various water and sewer main projects using these annual Capital Improvement Program (CIP) projects, any remaining funds at project close-out are either returned to the fund sources or allocated to other water or sewer main projects. To take advantage of anticipated funding balances from previous years' annual projects (Projects 17-21, 17-22, 18-21, and 18-22), the scopes of work for Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22, were expanded during the planning phase to include more segments of pipeline to replace the City's aging infrastructure. The recommended actions include appropriating the available balances from these completed projects to Projects 19-21 and 19-22.

On [April 13, 2021](#), Council approved a professional services contract with BKF Engineers (BKF) to design the replacement of substandard water and sewer mains in various locations around the City for Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22. Due to the potential conversion of the 100, 200, and 300 blocks of Castro Street into a pedestrian mall, Council approved staff's recommended amendment to BKF's agreement on [December 7, 2021](#), to include sewer main replacement design on Castro Street to upsize the sewer main on the 100 block, abandon the sewer main under the sidewalk on the 100 to 300 blocks, and replace the sewer main on the 100 block of Wild Cherry Lane.

ANALYSIS

Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22, will replace approximately 4,212 linear feet of substandard water mains and 4,250 linear feet of substandard sewer mains in various locations around the City.

Annual Water Main Replacement Project Scope

Annual Water Main Replacement, Project 19-21, will include water main replacement on Thaddeus Drive, Emmons Drive (Figure 1), Whitney Drive, Whitney Court, Parker Court (Figure 2), Alison Avenue, and Begen Avenue (Figure 3). Whitney Drive recently required a localized repair

due to a large water main break. A new pressure reducing valve (PRV) and vault on North Whisman Road at Evandale Avenue (Figure 4) will also be installed to improve the reliability of water distribution between pressure zones.

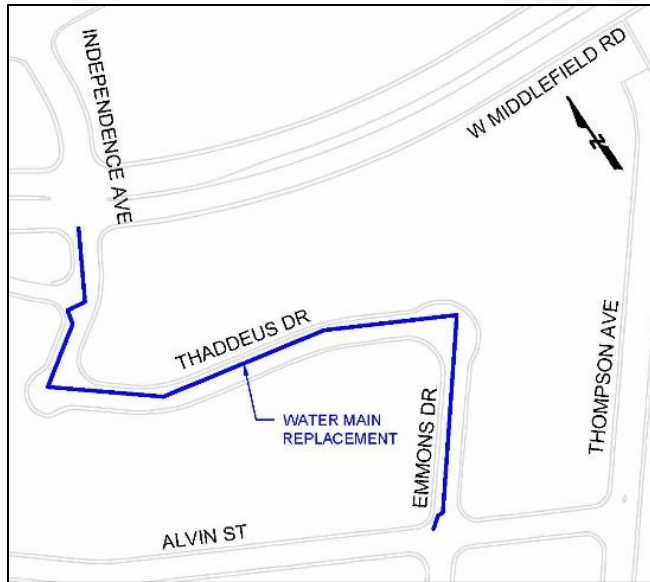


Figure 1: Water Main Replacement on Thaddeus Drive and Emmons Drive

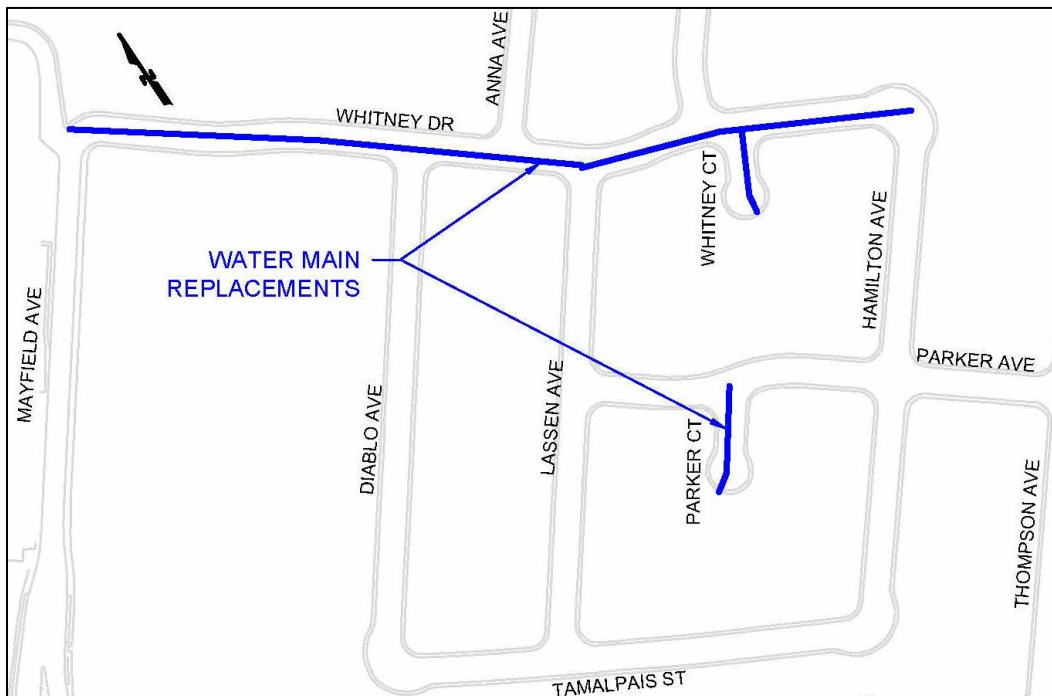


Figure 2: Water Main Replacements on Whitney Drive, Whitney Court, and Parker Court

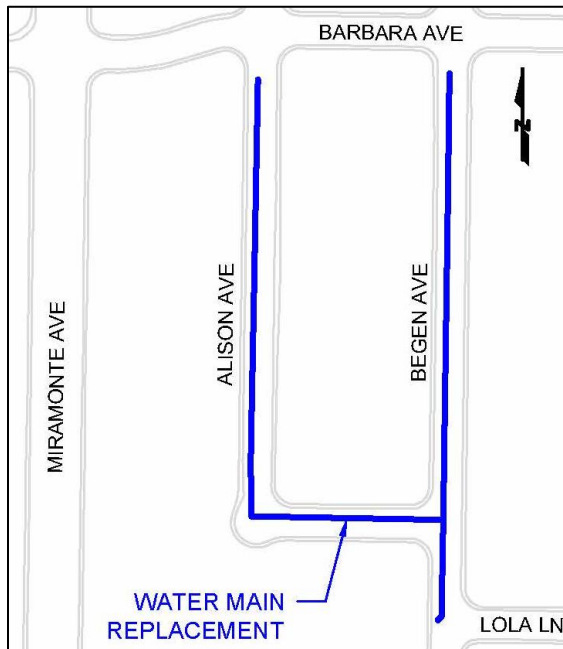


Figure 3: Water Main Replacement on Alison Avenue and Bejen Avenue

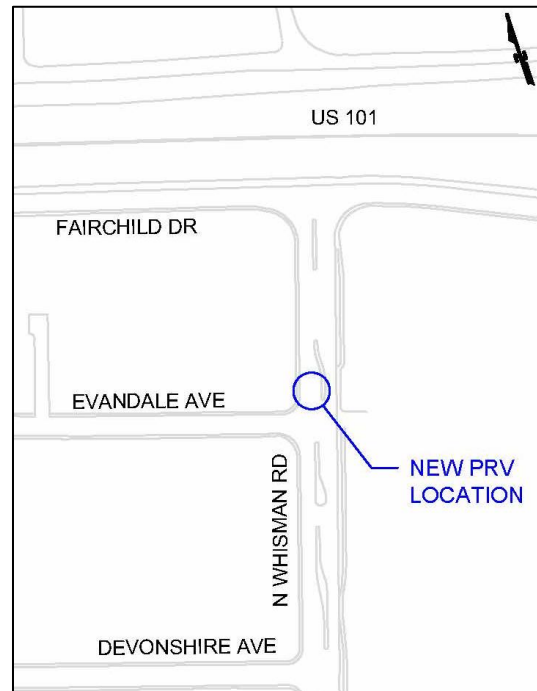


Figure 4: PRV on North Whisman Road and Evandale Avenue

In fall 2022, staff identified a water main leak under an existing storm culvert at the eastern end of Terminal Boulevard along the Shoreline at Mountain View maintenance access road. Staff has isolated the leak and stopped supplying water from the water main on Terminal Boulevard (Figure 5) to Shoreline at Mountain View. This segment of the water main needs to be replaced, as the City currently only has one water feed into Shoreline at Mountain View from Shoreline Boulevard. Staff directed BKF to include design of this water main replacement as part of the additional services for Project 19-21. Additionally, to facilitate Caltrans' El Camino Real repaving project, currently scheduled for summer 2023, Project 19-21 includes relocation of an existing fire hydrant at El Camino Real and Bonita Avenue (Figure 6).

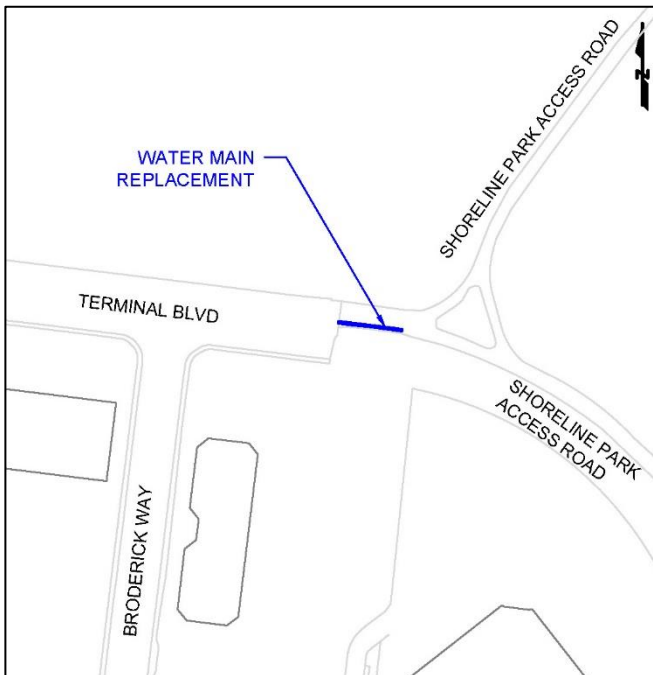


Figure 5: Water Main Replacement at Eastern End of Terminal Boulevard

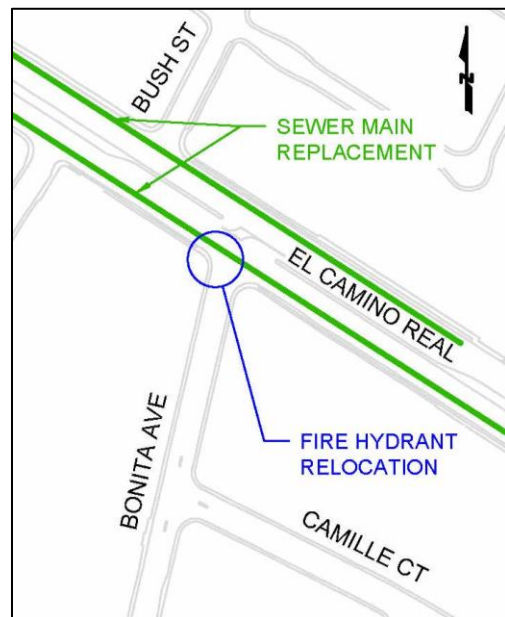


Figure 6: Fire Hydrant Relocation on El Camino Real at Bonita Avenue

Annual Sewer Main Replacement Project Scope

Annual Sewer Main Replacement, Project 19-22, will include sewer main repair and replacement on Wild Cherry Lane and on El Camino Real from Shoreline Boulevard to Ehrhorn Avenue (Figure 7). The sewer mains on El Camino Real need to be repaired and replaced prior to the Caltrans El Camino Real repaving project. As shown on Figure 7, sewer main replacement and upsizing on Castro Street will only occur from El Camino Real to California Street (along with some spot repairs).

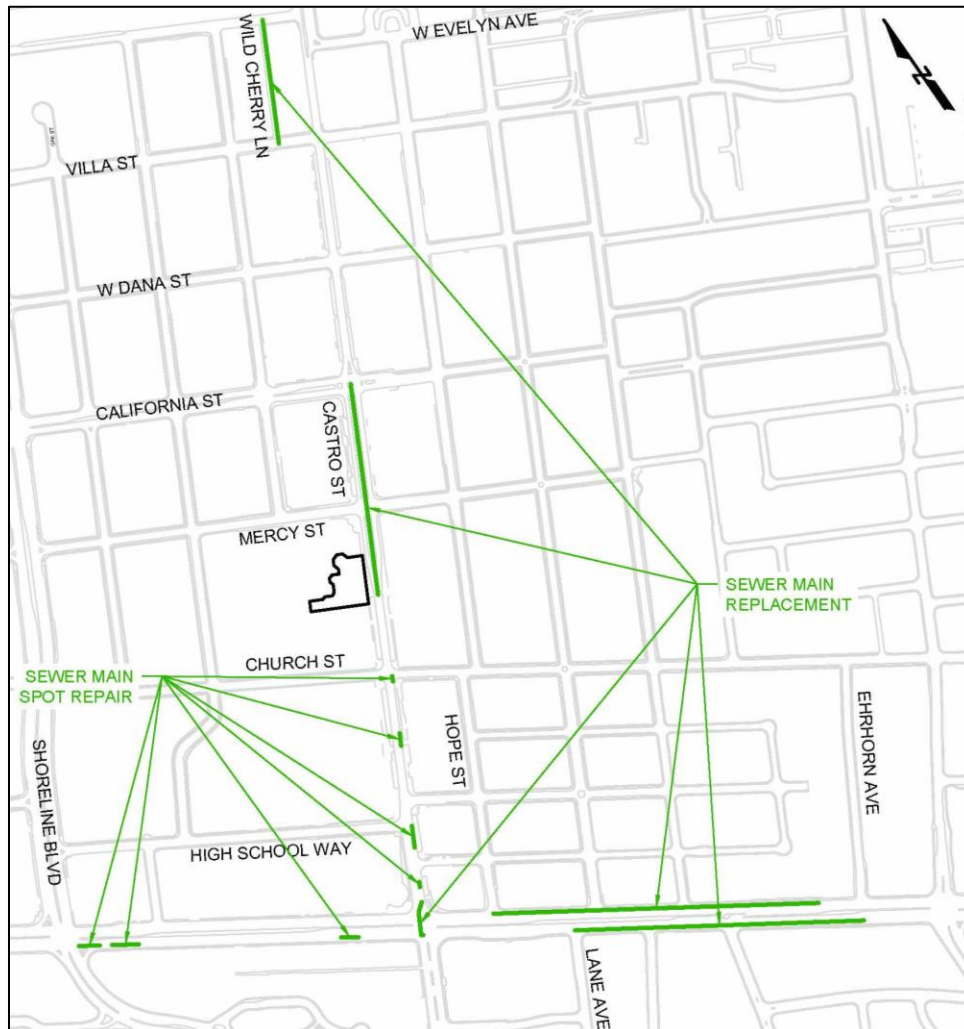


Figure 7: Sewer Main Replacements and Spot Repairs on Castro Street and El Camino Real

The sewer mains that were planned for replacement on the 100 to 300 blocks of Castro Street have been modified to localized repairs to reduce impacts to businesses prior to the implementation of the interim pedestrian mall improvements in summer 2023. Staff will utilize trenchless spot repair technology on the 100 to 300 blocks of Castro Street as interim repairs, which will be conducted via a separate contract from this Annual Sewer Main Replacement Project and using a separate project budget. Full sewer main replacement will be postponed and incorporated in the design of the permanent Castro Pedestrian Mall project.

Plans and specifications for the project are complete and available for viewing in the Public Works Department. The estimated project cost for Projects 19-21 and 19-22 is as follows:

Construction	\$4,348,000
Construction Contingency	632,000
Project Management	311,000
Construction Management	555,000
Design Consultant Services	878,000
Permitting and Miscellaneous	<u>120,000</u>
Subtotal	\$6,844,000
City Administration	<u>445,000</u>
Total Project Cost Estimate	<u>\$7,289,000</u>

Project 19-21 is funded from the Water Fund and Water Capacity Fee Fund, with a current available balance of \$1,833,000. Project 19-22 is funded from the Wastewater Fund, with a current available balance of \$1,076,000. As shown in the table below, an additional \$2,380,000 from other Annual Water Project budgets and \$2,000,000 from other Annual Sewer Project budgets are needed to fully fund the recommended 4,212 linear feet and 4,250 linear feet of water and sewer main improvements, respectively.

	<u>Project 19-21</u>	<u>Project 19-22</u>	<u>Total</u>
Project Cost	\$4,213,000	\$3,076,000	\$7,289,000
Project Budget	<u>\$1,833,000</u>	<u>\$1,076,000</u>	<u>\$2,909,000</u>
Funding Transfers	\$2,380,000	\$2,000,000	\$4,380,000

Staff recommends transferring the following amounts from the respective projects listed below:

- \$1,440,000 from the available balance in Miscellaneous Water Main/Service Line Replacement, Project 17-21 to Project 19-21.
- \$940,000 from the available balance in Miscellaneous Water Main/Service Line Replacement, Project 18-21 to Project 19-21.
- \$600,000 from the available balance in Miscellaneous Storm/Sanitary Sewer Main Replacement, Project 17-22 to Project 19-22.
- \$1,400,000 from the available balance in Miscellaneous Storm/Sanitary Sewer Main Replacement, Project 18-22 to Project 19-22.

If Council approves the recommended actions and a responsive bid within the project budget is received, construction is anticipated to begin in spring 2023 and be completed by early 2024. Advance public noticing will occur prior to and during construction. It is critical for the City to complete the City underground utility work prior to the Caltrans' El Camino Real repaving project scheduled for 2023.

Construction Management and Inspection Services

The Public Works Department utilizes consultants to supplement staff and provide construction engineering and inspection services as necessary to ensure the timely delivery of the City's construction projects and for projects requiring specialized construction expertise. The City currently uses two different firms to provide construction engineering and inspection services for private development and capital projects.

Staff has determined that construction engineering and inspection services are required for construction of Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22, due to resource shortage and recommends Tanner Pacific, Inc. (TPI), as the most qualified to provide the services. TPI has provided the City with similar construction support services on past City utility projects, including the recently completed interceptor rehabilitation at the sewer pump station and the annual water main replacement in the Rock Street/Spring Street neighborhood. TPI has demonstrated a strong knowledge of the City's standards, processes, and procedures to perform the required services. Their scope of services to be provided includes construction management, inspections, and project close-out. The proposed fee of \$485,000 for basic services and reimbursable expenses is within the range typically charged for such services, and staff considers this fee fair and reasonable for the scope of work required.

Environmental Clearance—Initial Study/Mitigated Negative Declaration

An Initial Study/Mitigated Negative Declaration (IS/MND) was prepared for the new PRV and vault on North Whisman Road and Evandale Avenue and a few other streets based on records showing low potential discovery of archeological and cultural resources in accordance with the CEQA Guidelines. The project specific locations studied in the IS/MND are the intersection of North Whisman Road and Evandale Avenue (Figure 4), Whitney Drive, Whitney Court, and Parker Court (Figure 2). The IS/MND utilized an interdisciplinary approach and integrated the use of natural and social sciences, and the consideration of qualitative as well as quantitative factors. The IS/MND identifies environmental effects of the project that may be mitigated to less-than-significant levels or avoided. Potentially significant impacts from the project were identified in the areas of biological resources and cultural resources, geology/paleontological resources, and tribal cultural resources.

These effects would be reduced to a less-than-significant levels through implementation of the following mitigations:

1. If construction, demolition, major renovation, or removal of trees and shrubs occurs between February 1 and August 31, preactivity surveys for nesting birds will be conducted.
2. For ground-disturbing excavation areas where there is potential for exposing buried cultural resources, including prehistoric Native American burials:
 - a. A professional archaeologist will review, identify, and evaluate any potential cultural resources that may be inadvertently exposed during ground-disturbing construction activities. The professional archaeologist will also review and evaluate any discoveries to determine if they are historical resources and/or unique archaeological resources under the California Environmental Quality Act.
 - b. Prior to the start of ground-disturbing construction activities, the professional archaeologist will implement a Worker Awareness Environmental Training program for cultural resources at the Whitney Drive, Whitney Court, and Parker Court construction sites.
 - c. Staff and the Santa Clara County Coroner will be immediately notified of potential discovery of human remains in accordance with Section 7050.5 of the California Health and Safety Code.
 - d. Staff will stop ground-disturbing activities in an event where paleontological resources are discovered and arrange for a qualified paleontologist to assess the significance of the discovery.

The adoption and implementation of the above-mentioned mitigation measures were assumed in the determination of environmental impact levels in the IS/MND. With these mitigation measures, the IS/MND concludes that all potentially significant environmental effects can be mitigated to less-than-significant levels.

The IS/MND was posted on the City's website and filed with the California State Clearinghouse and Santa Clara Clerk-Recorder for public comment on June 9, 2022. In addition, a legal advertisement for the Notice of Intent was published in the *Daily Post* on June 9, 2022. Agencies and the public had the opportunity to review and comment on the IS/MND during the 30-day comment period, which ended on July 11, 2022. No comments were received on the IS/MND. The Final IS/MND is included in Attachment 1.

Environmental Clearance—Categorical Exemption

In accordance with the requirements of the California Environmental Quality Act, the remaining project locations have been determined to be categorically exempt as Class 2, Replacement or Reconstruction, pursuant to Article 19, Section 15302(c), because the project will provide a replacement of existing public facilities involving negligible or no expansion of capacity. The Notice of Exemption was filed with the Santa Clara Clerk-Recorder on October 7, 2022 and was posted for public comment from October 7 to November 6, 2022.

FISCAL IMPACT

For the design, construction, and administrative costs of the project, the recommended actions would transfer \$2,380,000 from the Water Fund and Water Capacity Fees Fund currently allocated to Projects 17-21 and 18-21, to Project 19-21 and \$2,000,000 from the Wastewater Fund, currently allocated to Projects 17-22 and 18-22, to Project 19-22, for a total project budget of \$7,289,000.

The total recommended budget of \$7,289,000 for Projects 19-21 and 19-22 includes \$485,000 for the recommended professional services agreement with TPI to provide construction management services.

CONCLUSION

Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22, will replace aging and undersized water mains, sewer mains, services, and laterals in various locations outlined in this report. This includes the sewer main replacement on El Camino Real that must be completed prior to Caltrans' El Camino Real repaving project, scheduled to begin construction in 2023. An IS/MND was prepared for parts of the project in sensitive environmental areas. A Notice of Exemption has been filed for the remaining project areas that are not in sensitive areas. With Council's adoption of the Mitigated Negative Declaration, which includes mitigation measures to reduce potentially significant project environmental impacts to a less-than-significant level, and approval of staff recommendations, staff will advertise the project for construction bids and proceed to award the construction contract for spring construction if the low bid is within project budget.

ALTERNATIVES

1. Defer construction.
2. Direct staff to reduce project scope.
3. Provide other direction.

PUBLIC NOTICING

Agenda posting. Individual letters were sent to property owners near the project sites and property owners impacted by new fire hydrant locations.

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Attachment: 1. Resolution