



DATE: April 13, 2021

CATEGORY: Consent

DEPT.: Public Works

TITLE: **San Antonio Water Main Replacement, Project 21-21 – Approve Emergency Project and Authorize Bidding**

RECOMMENDATION

1. Adopt a Resolution of the City Council of the City of Mountain View Deeming the Replacement of a Section of a Water Main on San Antonio Road of Urgent Necessity and Authorizing Award of Contract to the Lowest Responsible Bidder with Reduced Advertisement and Bidding Requirements Pursuant to Mountain View City Charter Section 1107, to be read in title only, further reading waived (Attachment 1 to the Council report). (Five votes required)
2. Approve plans and specifications for San Antonio Water Main Replacement, Project 21-21, and authorize staff to solicit bids pursuant to Mountain View City Charter Section 1107.

BACKGROUND

The 12" water main in San Antonio Road north of California Street was constructed in 1959 (62 years ago). Cast iron pipes, such as this one, typically have useful lives of 50 to 75 years before replacement is required due to corrosion. The pipe on San Antonio Road had a good history of performance, with no known breaks.

The main has broken twice recently, on March 3 and March 8, 2021. Both breaks were in proximity to work being performed by a contractor on behalf of developers abandoning old and installing new water services for developments at 2580 California Street and 250 San Antonio Road. The first break compromised the roadway, requiring closure of San Antonio Road for several hours.

ANALYSIS

Examination of the failed pipe revealed that corrosion was extensive and caused both failures. Staff believes that the recent new development service work accelerated failure

of the pipe. Trenching nearby can disturb the foundation around the pipe, and turning the main on and off for service tie-ins can compromise a fragile pipe. Additional water services and multiple old service abandonments are required for nearby developments under construction, including four fire services to provide fire suppression for new buildings as well as during construction. Staff considers it highly likely that additional failures will occur and recommends that the main be replaced on an emergency basis.

The recommended actions would initiate the process of replacing 520' of 12" main on an emergency basis as authorize by City Charter Section 1107 (see Figure 1 – Location Map). This section includes: (1) the locations that have failed; (2) length of main recommended to be replaced to avoid future impacts to San Antonio Road, a major arterial; and (3) areas of anticipated new pavement to be installed by one of the developments.



Figure 1: Location Map

The streamlined emergency process is recommended because:

1. Staff considers additional failures to be highly likely, which would cause traffic disruption and potential safety hazards for drivers and construction workers;
2. Failures require the main to be shut down, creating interruptions of water supply for adjacent businesses and firefighting and potential impacts to water quality; and
3. Repairs are expensive.

City Charter Section 1107 allows the City to modify its traditional procedures for obtaining bids and authorizing construction when the work is deemed of urgent necessity for the preservation of life, health, or property by the City Council. Staff proposes to use the emergency procedures to streamline the traditional process, including having staff prepare the plans and specifications, advertising for just seven days, and soliciting bids directly from three or more qualified bidders. This section of water main can be replaced in its current alignment, which simplifies the design and reduces the time associated with procuring a designer to prepare the plans and specifications. The proposed streamlined process will allow construction to begin much sooner than through the traditional process while still providing plans and specifications to guide the work and bidding to encourage competitive pricing.

Due to its proximity to the proposed work, staff recommends that the scope of work also include a service line replacement for 250 San Antonio Road, which was to be completed as part of another City project.

If the recommended actions are approved, bids would be opened on or about April 26, and staff expects construction to begin by the beginning of June 2021 and be complete in August 2021.

Environmental Clearance

In accordance with the requirements of the California Environmental Quality Act (CEQA), this project has been determined to be categorically exempt as a replacement of existing public facilities involving negligible or no expansion of capacity at the same site.

FISCAL IMPACT

The estimated construction cost is as follows:

Construction	\$500,000
Construction Contingency	100,000
Construction Inspection and Testing	50,000
Miscellaneous	<u>10,000</u>
Subtotal	\$660,000
City Administration	<u>43,000</u>
TOTAL PROJECT COST ESTIMATE	\$703,000

Funding is available for this project from the Annual Water Main Replacement, Project 21-21, that is funded with \$2,688,000 from the Water Fund and Water Capacity Fees.

ALTERNATIVES

1. Do not deem this project of urgent necessity and address this pipeline deficiency with future annual water main replacement projects.
2. Provide other direction.

PUBLIC NOTICING

Agenda posting. Staff will coordinate any water service shutdowns with the impacted properties and provide temporary water services as needed.

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LA/CL/6/CAM
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Attachment: 1. Resolution

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