





# STAFF REPORT

**Meeting Type:** Planning Committee/Board of Directors  
**Title:** Fire Flow Improvement Program – Glenwood Transmission Pipeline Replacement Project (F22002)  
**From:** Alex Anaya, Director of Engineering  
**Through:** Ben Horenstein, General Manager    
**Meeting Date:** March 25, 2025

**TYPE OF ITEM:**                      Approve      X      Review and Comment

**RECOMMENDATION:** Review and comment on the Fire Flow Improvement Program – Glenwood Transmission Pipeline Replacement Project

**SUMMARY:** The Fire Flow Improvement Program – Glenwood Transmission Pipeline Replacement Project will install approximately 6,470 feet of new pipe in the City of San Rafael. On April 8, 2025, the District will open construction bids for the Project. District staff will make a recommendation for consideration of contract award at a future regularly scheduled Board meeting.

**DISCUSSION:** The Glenwood Transmission Pipeline Replacement Project is a component of the District’s Fire Flow Improvement Program. This Project will install approximately 6,470 feet of new 18”, 16”, 12”, 8”, 6”, and 4” welded steel pipe to replace the old, leak-prone, fire flow deficient piping installed as early as 1928.

The project will take place in the locations described in Table 1 and shown on the map provided in Attachment 1.

**Table 1**

STREET	LENGTH	INSTALLATION DATE	EXISTING SIZE & TYPE
Lochinvar Road	2107 ft	1954	10” CIP
Manderly Road	97 ft	1954	6” CIP, 8” CIP
Dunfries Terrace	99 ft	1954	8” CIP
Kinross Drive	69 ft	1954	6” CIP
Locksly Lane	115 ft	1996	6” PVC
Bonnie Banks Way	133 ft	1973, 1961	8” ACP, 16” WSP
Allensby Lane	58 ft	1958	6” CIP
Point San Pedro Road	92 ft	1928	8” CIP

Castlewood Drive	1196 ft	1957, 1966	16" CIP, 8" CIP
Cottonwood Drive	132 ft	1964	6" ACP
Knight Drive	1892 ft	1956, 1964	16" CIP, 6" ACP
Ashwood Court	176 ft	1956	4" CIP
Teakwood Court	227 ft	1956	4" CIP
Fernwood Way	28 ft	1956	6" CIP
Dellwood Court	49 ft	1956	6" CIP

\*ACP = Asbestos Cement Pipe, \*\*CIP = Cast Iron Pipe

These street segments were evaluated for the installation of recycled water piping. The nearest existing recycled water pipeline is approximately 4.8 miles away located at the intersection of San Pablo Avenue and Laurel Glen Terrace. The closest waste water treatment plant, Central Marin Sanitation Agency, is located approximately 4.5 miles away in San Rafael. However, their facilities are not equipped to provide tertiary recycled water. Therefore, it was determined that recycled water piping was infeasible for inclusion in this Project.

Summaries of the estimated Project costs and schedule are provided below.

Budget:

Engineer's Estimate: \$ 3,740,000  
Contingency (10%): \$ 374,000  
Materials and Professional Fees: \$ 648,000  
District Labor/Inspection: \$ 200,000  
Total Budget: \$ 4,962,000  
Budget Category: A2A

Estimated Project Implementation:

Project Advertisement: March 25, 2025  
Bid Opening: April 8, 2025  
Project Award: May 6, 2025  
Estimated Completion Date: January 2, 2026  
Duration: 241 days

District staff intend to make a recommendation for consideration of contract award for this item at a future regularly scheduled Board meeting.

**ENVIRONMENTAL REVIEW:** The Director of Engineering has determined that the Project is Categorically Exempt pursuant to California Environmental Quality Act (CEQA) Guidelines Section 15302(c), Replacement or Reconstruction. The Project qualifies for exemption pursuant to Section 15302(c) inasmuch as it is the replacement of existing water pipeline involving negligible or no expansion of capacity.

**FISCAL IMPACT:** The total cost to complete the Fire Flow Improvement Program – Glenwood Transmission Pipeline Replacement Project is estimated at \$4,962,000, inclusive of District Labor, materials and contingencies. This project was partially funded by the Adopted 2 Year Capital

Improvement Budget (FY 2023-25). Sufficient prior year fund balance is available in the Fire Flow Improvement Fund to support the full project cost. The Board's approval for this project will appropriate \$3,762,000 in prior year Fire Flow fund balance for this project.

**ATTACHMENT(S):**

1. Site Map