

STAFF REPORT

**To: Coastside County Water District Board of Directors
Via David Dickson, General Manager**

From: James Derbin, Superintendent of Operations

Agenda: October 9, 2018

Report

Date: October 4, 2018

Subject: 2" Main South Highway One Emergency Pipeline Replacement

Recommendation:

Determine that waiving the competitive bidding requirements of Resolution 2016-09 and that contracting on a sole-source basis with Andreini Brothers to replace 3,300 feet of 2-inch galvanized water main in Highway 1 south of Miramontes Point Road is in the best interest of the District based on the urgent need to complete the project and authorize the General Manager to execute a contract with Andreini for the replacement, for a total not to exceed \$325,000.

Background:

The District's Highway 1 South Pipeline is a 2-inch galvanized steel pipe which extends about 3,300 feet south along Highway 1 from its intersection with Miramontes Point Road, as shown in the attached drawing. The pipeline predates the District's formation in 1947, and it serves eight connections. Six of the eight service connections on the pipeline lie outside the District's boundaries. Due to restrictions put in place after these connections were made, the District cannot add any new connections outside District boundaries, nor can we expand water service to the existing out-of-boundary connections. Rather than upsizing the pipeline, therefore, we're planning to install a new 2-inch pipe.

Although we had planned to construct the replacement pipeline by the end of the current fiscal year, recent developments have created a potential health and safety problem and made completing the project a matter of urgency for us. Operating pressure at the end of the line has dropped, requiring us to work with individual customers on a daily basis to ensure that everyone has sufficient water. We believe the drop in pressure may result from a leak which is not visible at the surface. Due to the length and depth of the pipeline, there is no practical means of locating and fixing the leak. We therefore plan to install the new pipeline as quickly as possible, using the horizontal directional drilling method. EKI Environment and Water has prepared a plan set and specifications for this work.

Fiscal Impact:

This project is included in the approved FY 18/19 CIP budget in the amount of \$750,000 entitled "Highway 1 South Pipeline Replacement Project".

HIGHWAY 1 SOUTH PIPELINE REPLACEMENT PROJECT

PROJECT BACKGROUND

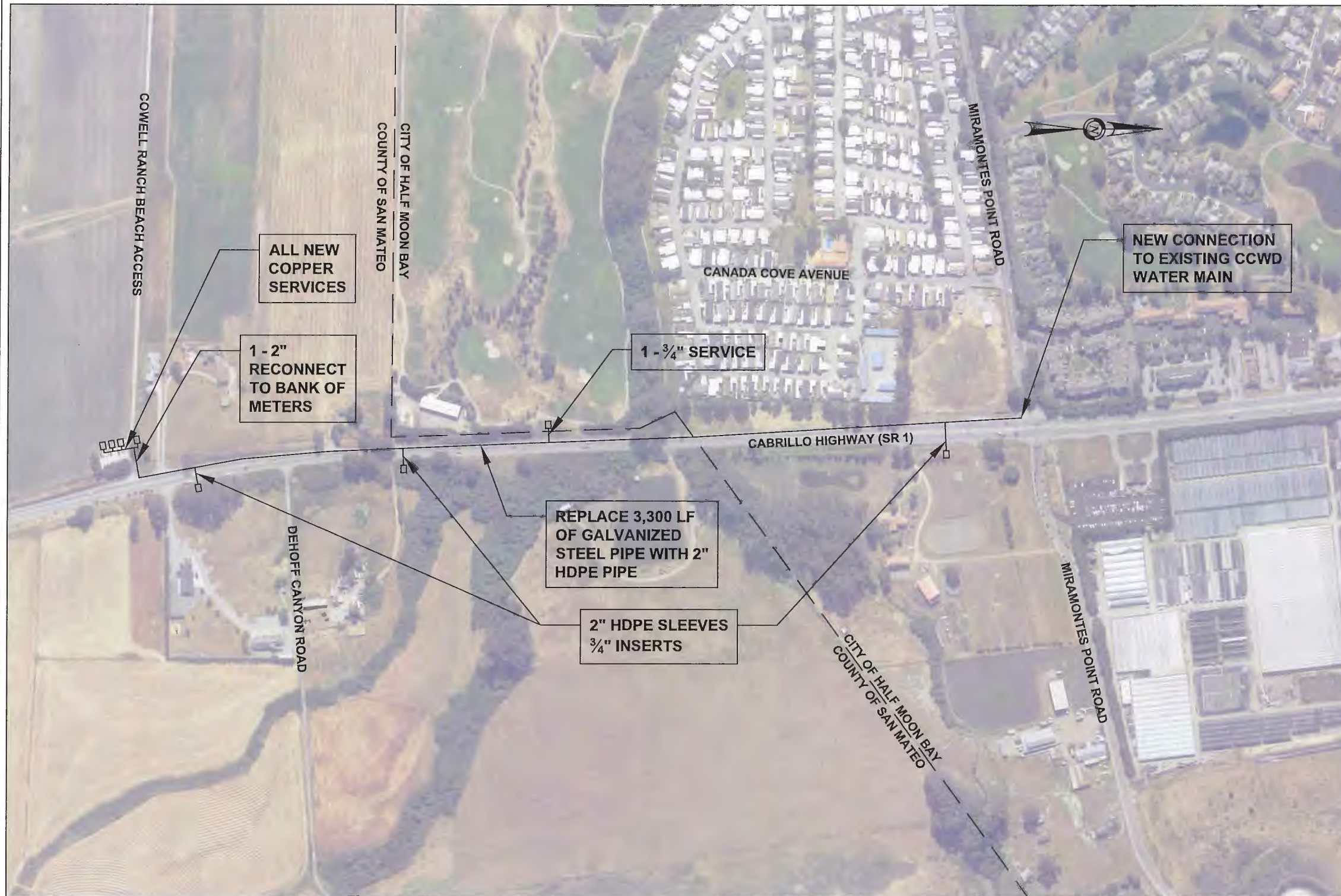
Currently there is a 2" galvanized steel pipe (GSP) water main that begins at the intersection of Miramontes Point Road (MPR) and Cabrillo Highway (Highway 1) and extends southward along and within the Highway 1 right-of-way. Due to pipe age, condition, and on-going leak repair program, the existing water main currently provides limited domestic water service for eight customers. The primary purpose for replacing the existing 2-inch water main is to provide reliable domestic water service for all eight residential services. This project would replace 3,300 LF of the existing GSP with a new 2" HDPE water main. The water main will be similar in length and both horizontal/vertical alignment to the existing 2-inch water main. Hydraulic analysis indicates that the available pressure at the south end of the water main would increase from 18.5 psi to 39 psi with 4 gallons/min demand.

PROPOSED IMPROVEMENTS

Install 3,300 LF of new 2" HDPE pipe
Replace 8 service connections

PROJECT BENEFITS

The Highway 1 South Pipeline Replacement Project replaces an aging 2" GSP with a new 2" HDPE pipe to provide reliable domestic water service to all eight residential services.

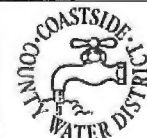


PLAN VIEW
1" = 400' SCALE



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JOB No.	10034.09						
DATE	08/06/18						
SCALE	AS NOTED						
DESIGN:	BY WL						
	CKD JP						
DRAWN:	BY WL						
	CKD JP						
		SYMBOL	DATE	REVISIONS	BY	CKD	



COASTSIDE COUNTY
WATER DISTRICT
766 MAIN STREET
HALF MOON BAY, CA

HIGHWAY 1 SOUTH PIPELINE REPLACEMENT PROJECT
COASTSIDE COUNTY WATER DISTRICT

SHEET 1
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