

Samoan Bridge Support Columns



Overview

State Route 255 crosses over Humboldt Bay spanning from Eureka to Samoa. The Samoa Bridge Murals project enhances tribal and recreational use areas in the communities by beautifying six land-based columns of the bridge. Artists Laci Dane of Wiyot (front) and Jessica Cherry of Crescent City (back) work from lifts to paint murals on two of the columns of the Samoa Bridge. Meloland Road Overcrossing (top) and its seismic instrumentation (bottom). MRO is approximately 208 ft long and 34 ft wide with each span measuring 104 ft. The improvements will benefit low-income, historically excluded neighborhoods. In this preliminary study, we present the development of a high-fidelity finite element model for the Samoa Bridge located in Humboldt County, California. This carefully constructed global model is calibrated using data recorded during a strong earthquake, and is shown to capture the salient. Columns are structural elements that support the superstructure, transfer vertical loads from superstructure to foundation, and resist the lateral loads acting on the bridge due to seismic and various service loads.

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The project will adorn four of the land-based columns that support the bridge, which spans Humboldt Bay on State Route 255, while simultaneously beautifying the recreational area, ...



Now, yes, that's quite a mouthful, but stay with me—this model is for the Samoa Bridge in Humboldt County, California, and it was created and calibrated using data from an actual, ...



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The City of Eureka, in conjunction with Caltrans, is proposing to install murals on five land-based columns that support Eureka's Samoa Bridge, adjacent to Waterfront Drive.



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Recorded earthquake motions from the extensively instrumented Samoa Channel Bridge provide valuable information on the mechanisms of structural response during seismic excitation.



As shown in Fig. 7, a beam-column model (118 elements) representing the entire Samoa Channel Bridge with its different column heights (Table 2) was developed to investigate the ...



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The support provided by the west abutment of PSO was modeled using a friction isolator to simulate the neoprene pad, and to decouple the superstructure and abutment backwall from the pile-cap.

Contact Us

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