



Project Name: Honolulu High Capacity Light Rail Project

Location: Honolulu, Hawaii

Owner: The City and County of Honolulu Hawaii

Client: PB Americas, Inc.

Project Facts: Honolulu Rail Transit is a proposed 20-mile elevated rail line that will connect West O'ahu with downtown Honolulu and Ala Moana and, one day, will extend even further to Honolulu International Airport, Waikiki, UH Manoa and Kalaheo. The system features 200-foot-long electric, steel-wheel trains capable of carrying more than 300 passengers each. Trains can carry more than 6,000 riders per hour. By 2030, up to 90,000 riders per day are expected to use rail transit.

Preliminary engineering indicates that optimal typical span length will be 150ft with erection using span by span assembly and overhead launching gantries. The project will also require a number of longer spans where balanced cantilever construction can be expected with longest spans in range of 300ft. Subsurface conditions in Hawaii vary considerably along the alignment. It is anticipated that 8ft diameter drilled shafts up to 125ft in length will provide the best foundation option for most of the alignment.

Services Provided: Developed conceptual and comparison estimates for 7 different combinations of cross sections, box widths and span lengths. We also developed preliminary schedules for each concept.

When: February 2008 thru April 2008

Website Links: <http://www.honolulutrains.com/> and <http://www.asbi-assoc.org/news/project/index.cfm?aid=375>