

San Francisco International Airport Terminal Viaduct Retrofit

A HOCHTIEF Company

Owner

City and County of San Francisco

Location

San Francisco, CA

Value

\$17,400,000

Market

Airports

Start - Completion Dates

8/2005 - 3/2007

- Seismic retrofit of airport terminal viaducts
- 50 columns retrofitted with micro piles and concrete reinforcement
- Extensive coordination with multiple airport agencies
- Community relations to ensure accommodation of traveling public

Project Description

Flatiron seismically retrofitted 50 columns along the San Francisco International Airport's upper terminal viaduct. To reinforce the viaduct footings, Flatiron placed 1,200 cubic yards of concrete and 190 micro piles. Due to the limited overhead clearance in the terminal area, micro piles were used to add tension and compression capacity to the existing footing. Flatiron also installed 50 structural steel containment wraps around the architectural viaduct columns. This retrofit required complete replacement of the terminal roadway and sidewalks throughout passenger pickup and ground transportation zones.

In order to allow construction to occur simultaneously with the airport's various public transportation services, Flatiron performed work in 14 stages within protected areas. Other work, such as underground utility systems and electrical conduit and lighting units, was performed mainly at night and during off-peak hours.

Flatiron's team collaborated with the various airport agencies, including the police, duty manager, security, utilities, and ground transportation, to ensure the traveling public was accommodated at all times. This was the first phase of a two-phase project to bring the airport terminal viaducts up to current seismic standards.

Company Role

Flatiron was the prime contractor for this project.

