

## Haaland Glen Bridge

A HOCHTIEF Company

### Owner

Black Mountain Ranch LLC

### Location

San Diego, CA

### Value

\$2,213,000

### Market

Bridges

### Start - Completion Dates

7/2005 – 3/2006

- 106-foot long, three-span cast-in-place concrete box girder
- Innovative construction methods used to avoid risks associated with flooding
- Nothing for the bridge was built off the ground, everything was suspended from brackets

## Project Description

The Haaland Glen Bridge at Black Mountain Ranch is an “old-world 18th century stone clad bridge” that spans an environmentally sensitive area connecting two neighborhoods. The neighborhoods are located between the I-5 and I-15 freeways off of State Route 56. The new Haaland Glen Bridge is a 106-foot long, three-span cast-in-place concrete box girder bridge on high seat abutments and arched column bents. It was designed to blend in with this community and featured eight decorative arches, stone veneer, decorative hand railing, decorative concrete pavers on the driving surface of the bridge, and two water mains.

In effort to facilitate efficient construction and avoid risks associated with flooding, two of the bridge’s interior arches and three spans of falsework supporting the bridge superstructure were supported from jacks which were mounted to the previously cast bridge columns. In a sense, Flatiron created a construction method where the bridge would support itself during construction. Below the bridge, nothing was built off of the ground; everything was suspended from brackets that were cast into the bridge columns. By eliminating the risks associated with flooding, all damages and associated costs were avoided.

### Company Role

Flatiron was the prime contractor for this project.

