



Bay Area Bridges





San Francisco-Oakland Bay Bridge





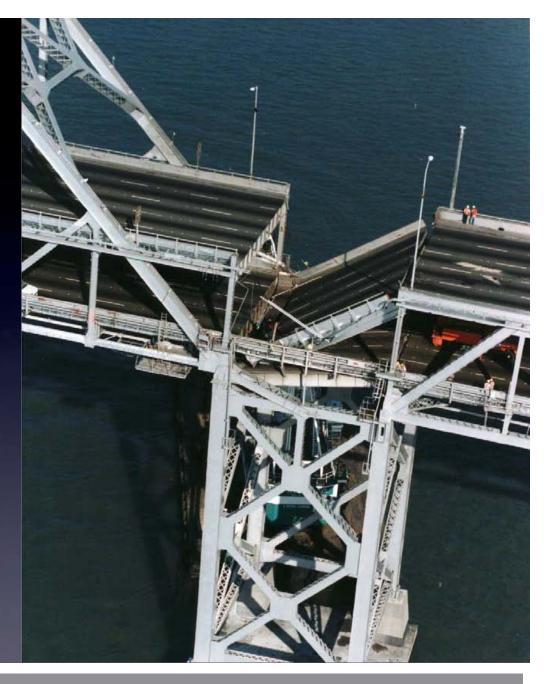
Seismic Safety Projects





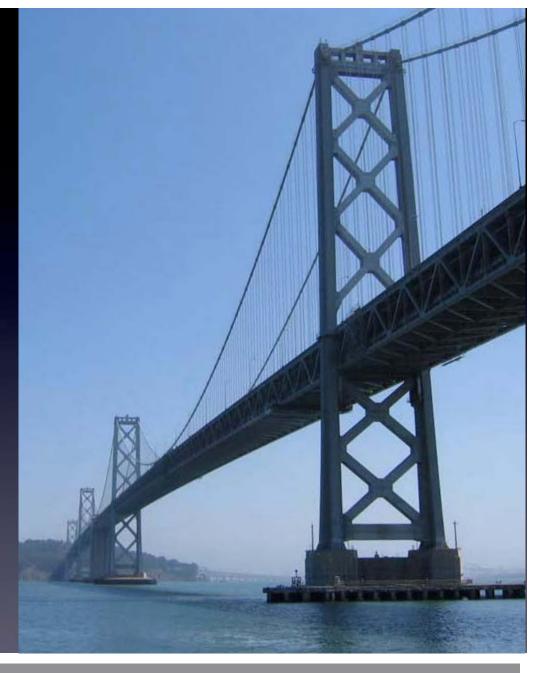
Project Overview

- Largest public works effort in state history
- Bridge damaged in Loma Prieta earthquake
- Entire bridge being retrofitted or replaced
- Opens to westbound traffic in 2012, eastbound traffic in 2013





- Retrofit began in 1999; finished in 2004
- 8,500 tons of structural steel added
- Seismic devices including "shock absorbers" installed
- Entire 3 million-ton span was lifted to install seismic bearings



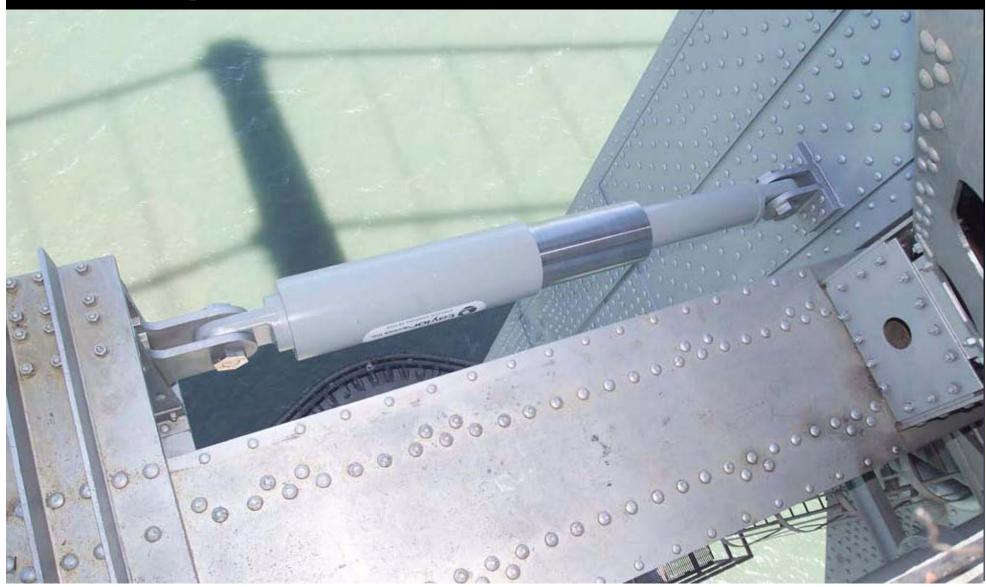














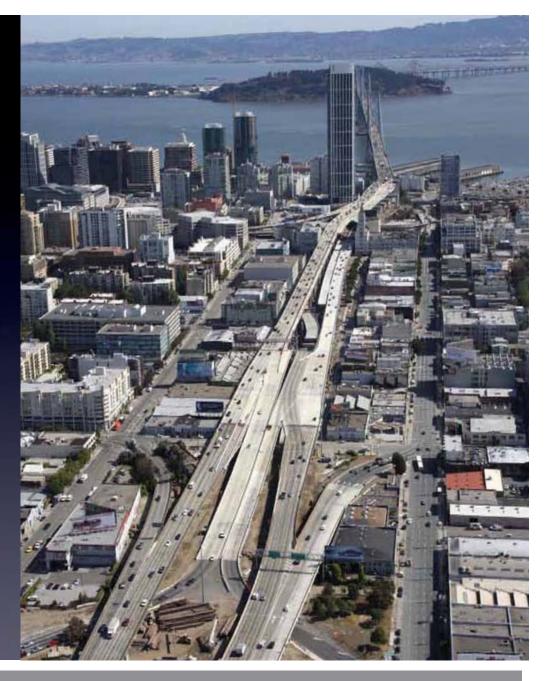




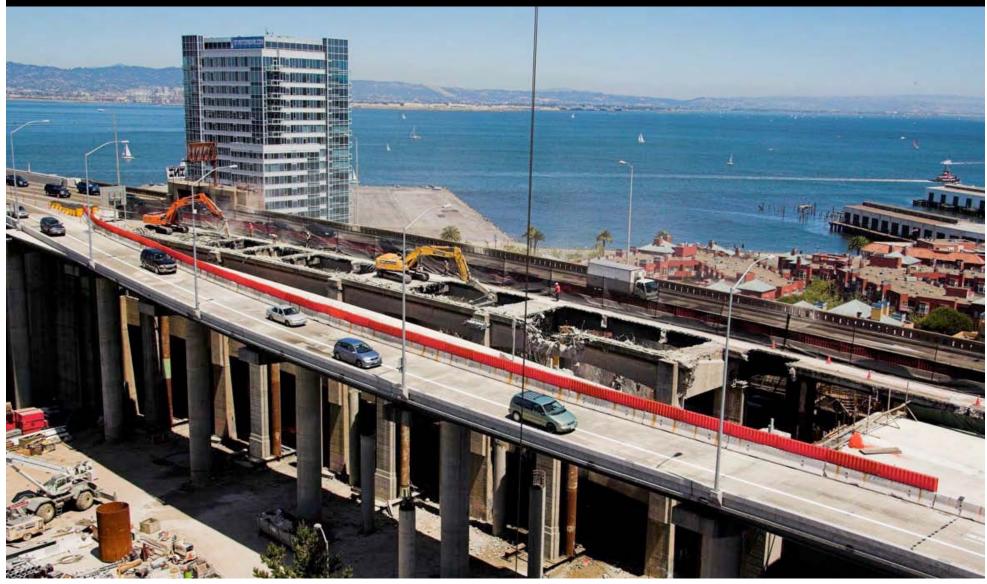




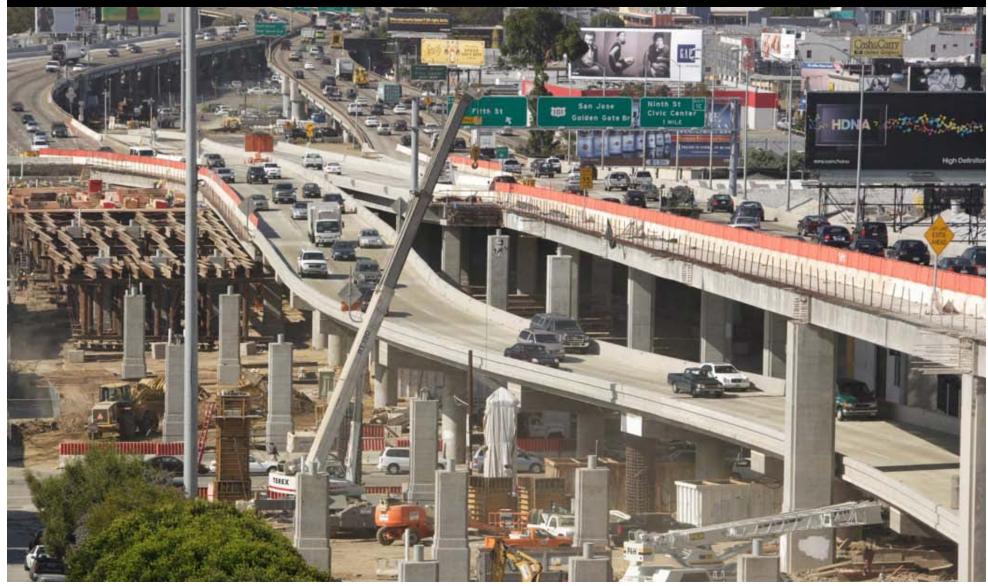
- 1-mile stretch of Interstate 80 with 6 on- and off-ramps
- Inches from homes/businesses
- Extremely complex construction project
- Lower deck closed Labor Day weekend 2006
- Completed in early 2009
- Western half of bridge is now seismically safe



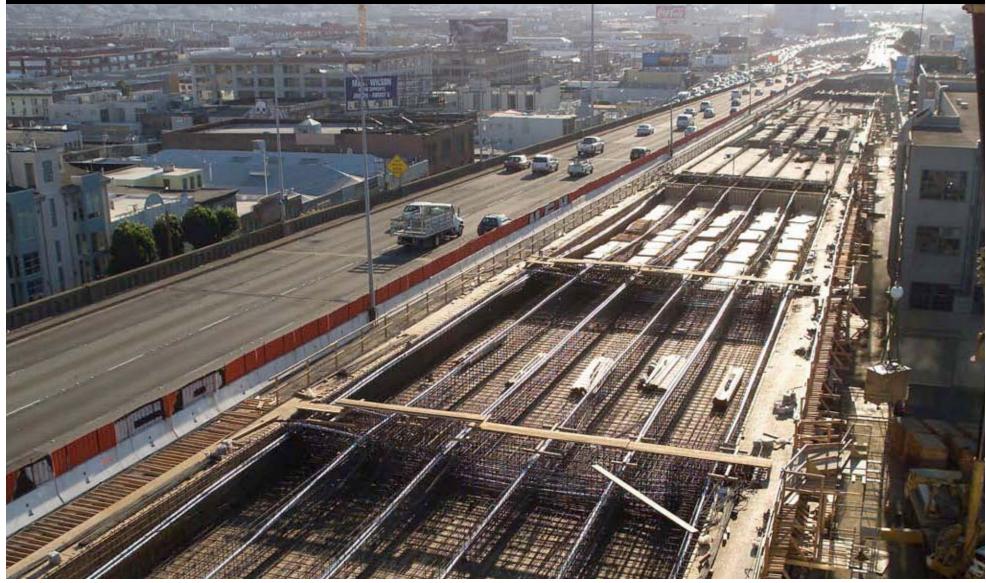


















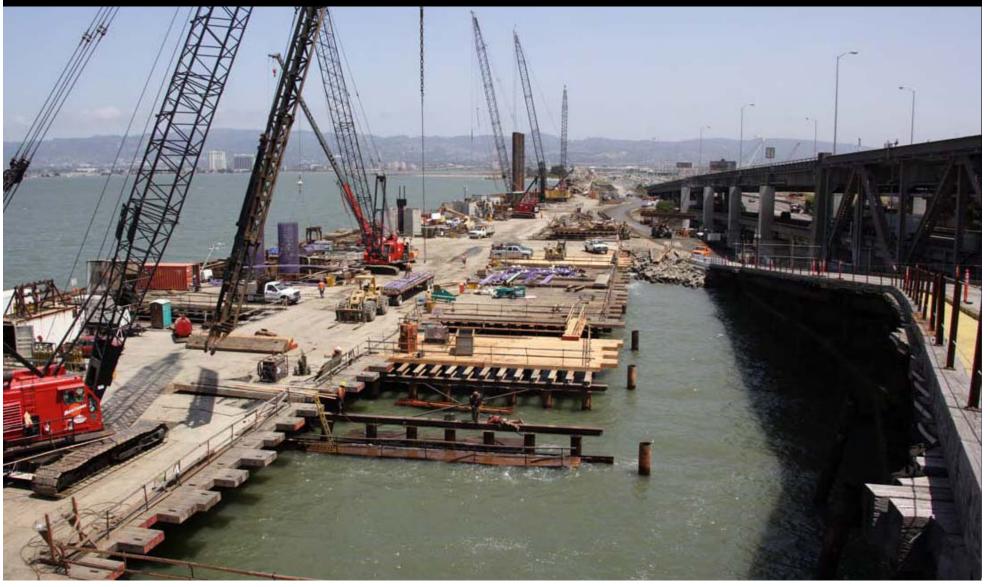




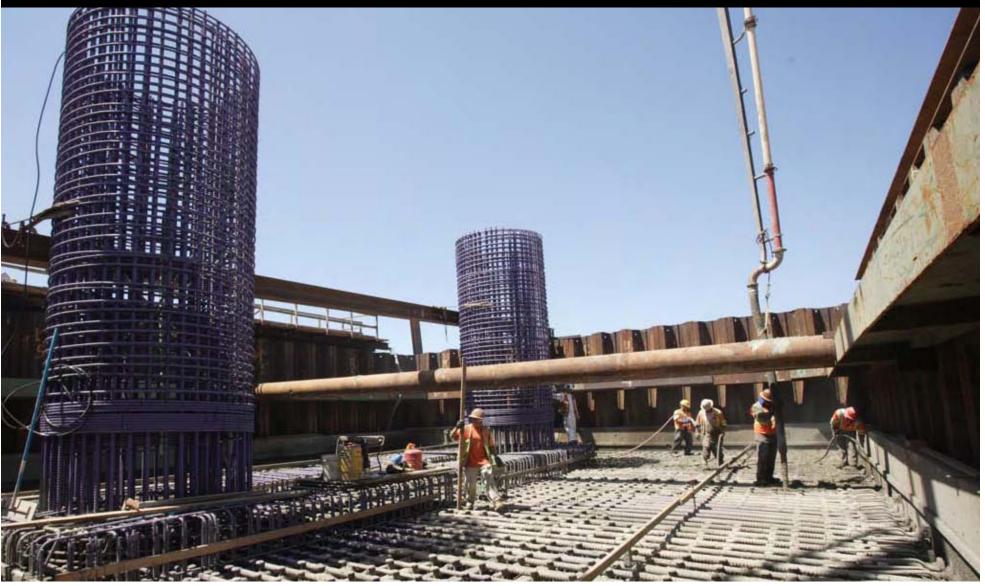
- Connects Interstate 80 to East Span
- Constructed in two phases













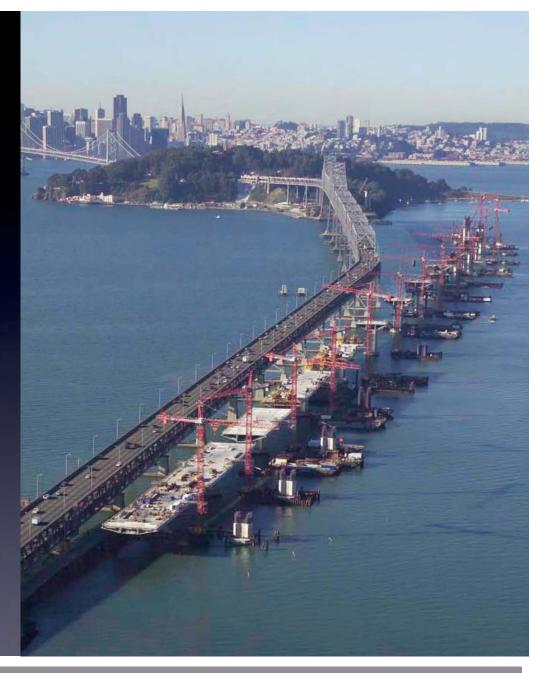




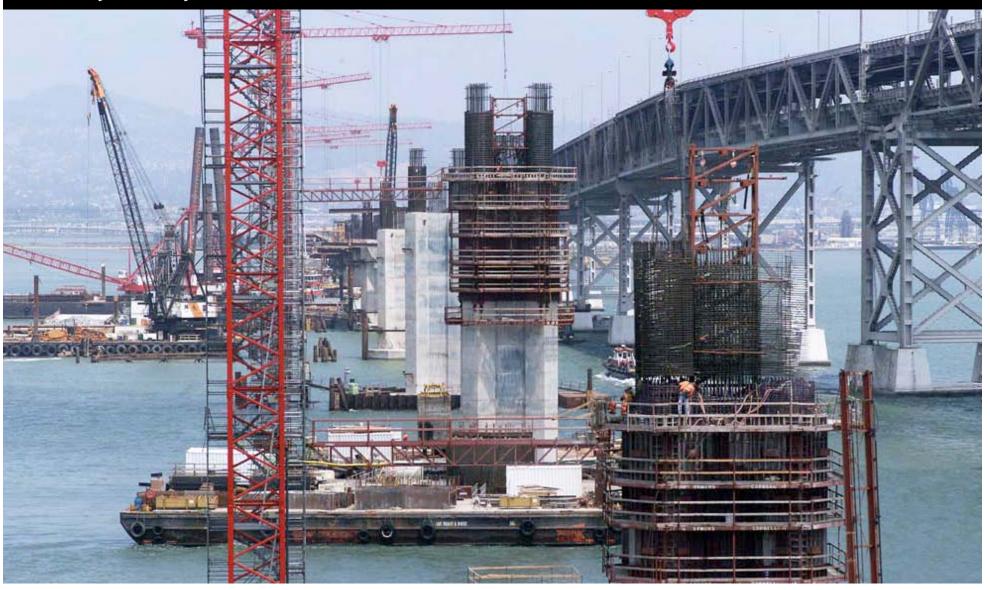




- Parallel roadways replace existing double-deck
- 1.2 miles long
- Completed in early 2008
- 452 pre-cast concrete segments
- Seismic innovations in design



























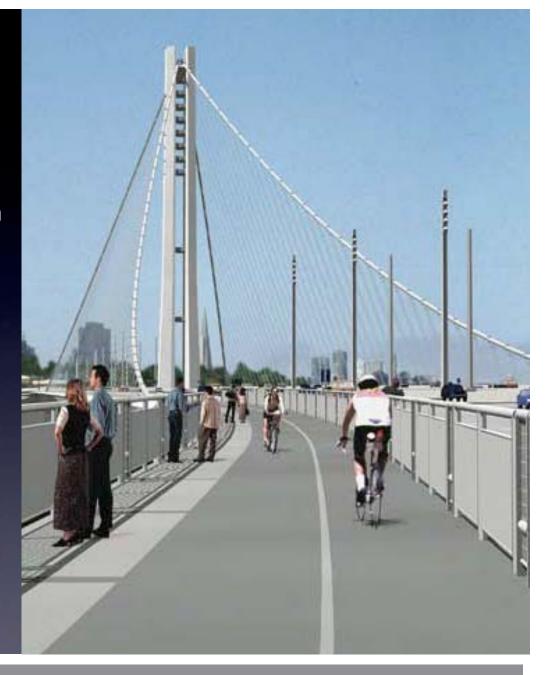






Self-Anchored Suspension Span

- Iconic
- Longest self-anchored suspension bridge in the world (2,047 feet)
- Single 525-foot-tall tower
- Unique design
- Deck sections arrive this summer





Self-Anchored Suspension Span





Self-Anchored Suspension Span





Self-Anchored Suspension Span



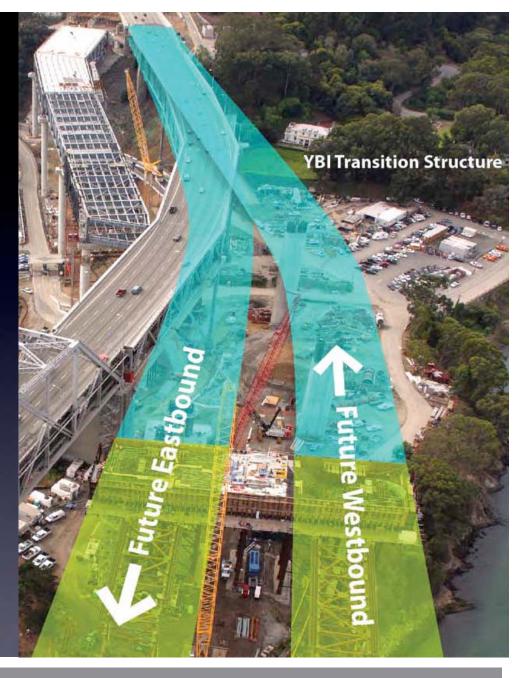






Yerba Buena Island Transition Structure

- Transitions parallel decks to double decks
- Foundations completed in earlier contract



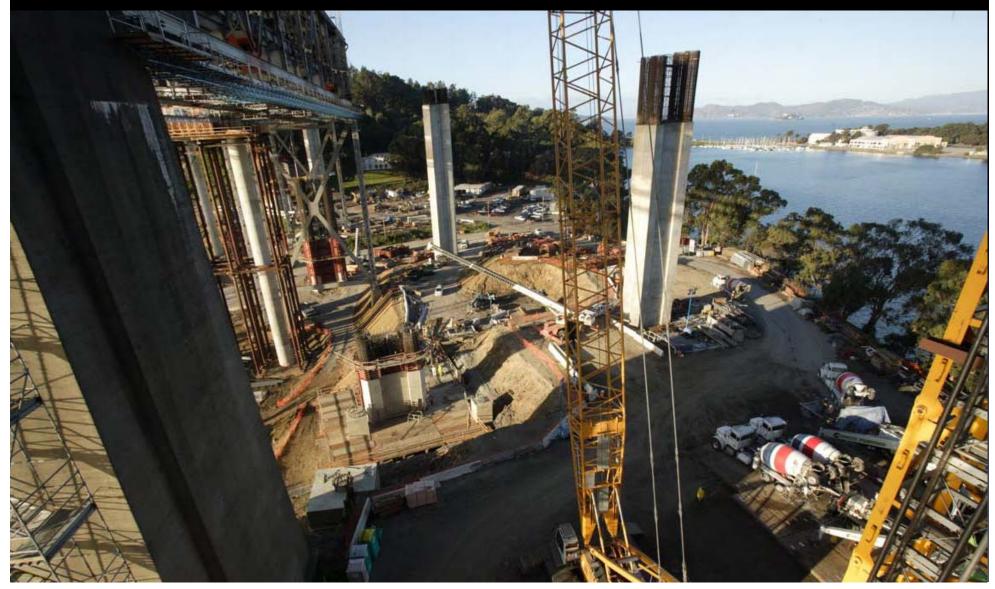


Yerba Buena Island Transition Structure





Yerba Buena Island Transition Structure





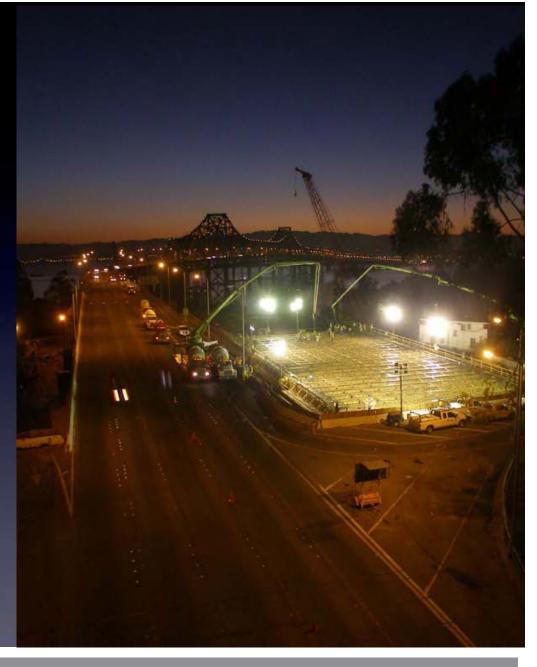
Yerba Buena Island Transition Structure





Labor Day Weekend 2007

- Closed entire bridge
- Removed and replaced 350 foot, 6,500 ton section of roadway
- Bridge reopened 11 hours ahead of schedule





Labor Day Weekend 2007





Labor Day Weekend 2007



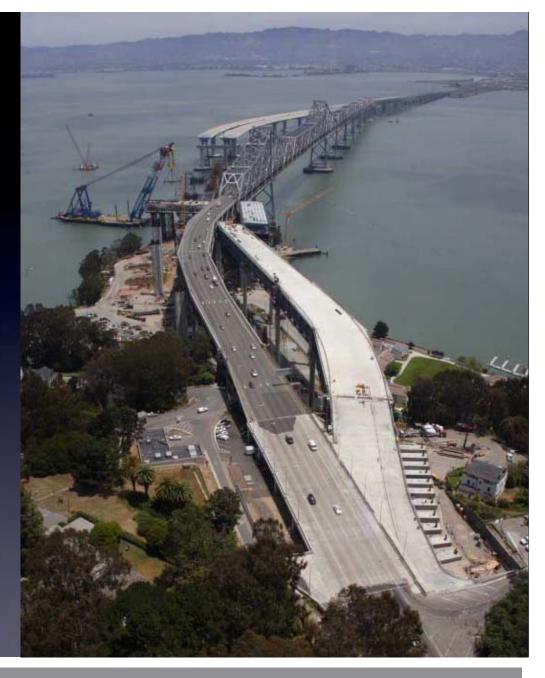


Labor Day Weekend 2007 Timelapse



Labor Day Weekend 2009

- Closing entire bridge
- Cutting out 350-foot long, 3,300 ton section of bridge
- Sliding in 3,600 ton segment to connect East Span to bypass
- Work will occur 150 feet in the air
- Traffic will use bypass until new East Span opens





Labor Day Weekend 2009





Labor Day Weekend 2009 Simulation





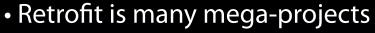
Risk Management

- On-time, on-budget
- Hailed as national example

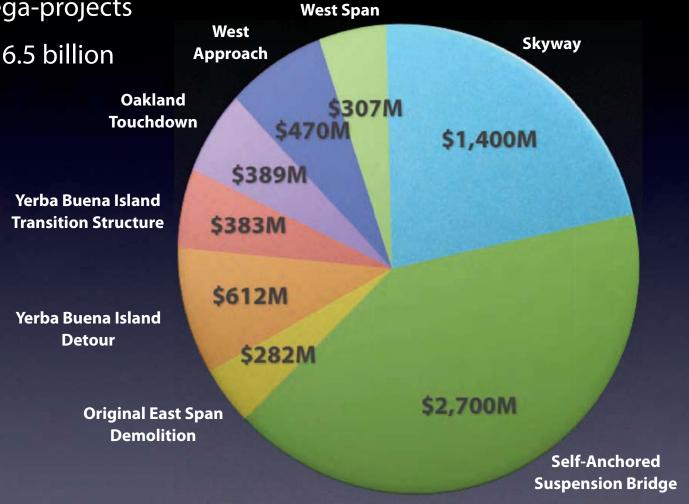




Financials



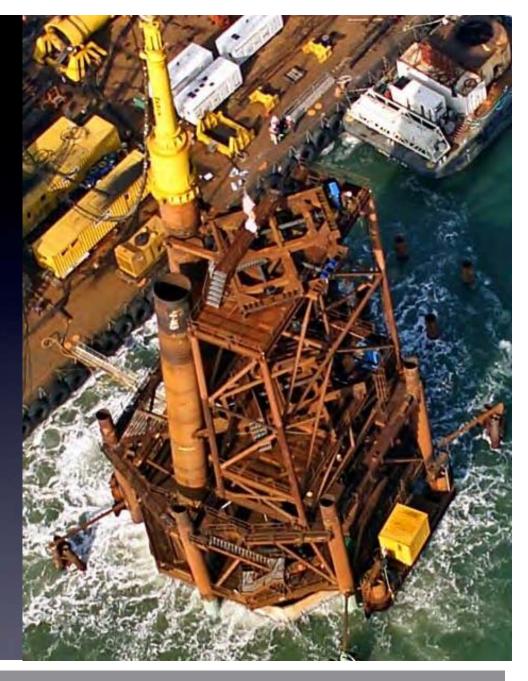
• Total project cost: \$6.5 billion





Environment

- Team of dedicated environmental professionals
- "Bubble curtain" used to minimize impact on marine life during Construction
- Created new bird nesting habitat under Skyway
- Monitoring and protecting water quality





Environment





Environment

