Golden Gate Bridge Structures
Shown with the Seismic Retrofit Design Measures

San Francisco Approach Viaduct
- Install isolators, replace towers and bracing members, add cover plates, strengthen foundation, replace expansion joints, close deck joints.

Pylon S2
- Strengthen with steel plates, internally and externally, and anchor to bedrock.

Pylon S1
- Strengthen with steel plates, internally and externally, and anchor to bedrock.
- Install dampers.

San Francisco Anchorage
- Strengthen by reinforcing internally, replace west wall and portions of east wall, strengthen foundation.

Abutment

Pylon S1
- Stiffening Truss: Replace some lateral bracing, strengthen connections.

Main Cables

Vertical Suspender Ropes

Concrete Fender
- Replace portions of curb.

Suspension Span
- 6,450 ft.
- Install dampers at towers and pylons, strengthen stiffening trusses.

Fort Point Arch
- Install energy dissipation devices and expansion joints, add bracing, strengthen members and modify bearings.

Pylon S2
- Saddle: Strengthen and immobilize saddle/cable connection.

San Francisco Tower
- 746 ft. tall.

San Francisco Approach Viaduct

220 ft. to water

Marin Approach Viaduct
- Install isolators, replace and add some bracing members, replace towers, add cover plates, strengthen foundation, replace expansion joints, close roadway joints.

Pylon N1
- Marin Tower: 346 ft. tall.

Pylon N12

Marin Anchorage
- Strengthen by reinforcing internally, replace roadway deck.

Tower Pier
- Strengthen with prestressed steel tendons.

Marin Approach Viaduct
- Tower:

San Francisco Tower

220 ft. to water