

- **1. West Approach:** The 2,800-foot-long west approach will be on Terminal Island.
- **2. Columns:** More than 90 above-ground steel-reinforced concrete columns will support the west and east approach sections of the bridge.
- **3. Pedestrian & Bicycle Access:** A pedestrian and bicycle path on the south side of the new bridge will connect to downtown Long Beach and offer unique views of the Port.
- **4. Hinges:** Hinges are placed strategically between sections of the bridge to prevent damage by allowing movement during an earthquake or temperature changes.

- **5. Overlook:** Observation decks will offer dynamic views 205 feet above the water, facing south toward the harbor and Catalina Island.
- **6. Cables:** Forty cables will be used to connect each tower to the road deck. The longest cable on the bridge will be 573 feet. Each cable is made up of 45-109 strands. If all the strands were laid end-to-end, they would add up to 1.7 million feet in length.
- **7. Towers:** At 515 feet, the new bridge's two towers are the second-tallest of any cable-stayed bridge in the U.S. The steel-reinforced concrete towers are supported by massive foundations. The towers' shape unique to this bridge transitions from an octagon at the base to a diamond at the top.
- 8. Cable-Stayed Bridge: The new bridge is a cable-stayed design, in which cables directly connect from the towers to the road deck (unlike a traditional suspension bridge, which uses cables draped over towers). The entire length of the bridge main span and approaches will be 8,800 feet.
- **9. Span:** The main span and back spans of the new bridge will be 2,000 feet long and 205 feet above the water. It will be the highest deck of any cable-stayed bridge in the U.S.
- **10. East Approach:** The 3,600-foot-long east approach will connect drivers to both the Long Beach (710) Freeway and Ocean Boulevard toward downtown Long Beach.

- **11. Foundations:** The bridge will be supported by about 350 foundation piles, as deep as 175 feet below the surface.
- **12. Back Channel:** The new bridge will be much higher above the Port's 220-foot-wide Back Channel, allowing ships to more easily access the Inner Harbor.
- **13. Pile Cap:** Pile caps are concrete and steel structures built atop a cluster of foundation piles. The pile caps support columns that connect to the road deck.

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