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PROJECT PORTFOLIO - POST-TENSIONING DIVISION

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# Bay Bridge YBI

## Oakland, California

The Yerba Buena Island Transition Structure (YBITS) connects the new signature span of the San Francisco-Oakland Bay Bridge to the tunnel located on Yerba Buena Island. The YBITS will transition vehicles from the parallel decks of the new East Span to the double deck configuration of the Yerba Buena Island (YBI) tunnel.



Unlike the Skyway Structure which was built using precast segmental construction or the Signature Span consisting of a self-anchored suspension bridge, this portion was cast on false work which is the standard construction method used for California bridges. What sets this structure apart is the sheer magnitude. The superstructure alone consists of 43,000 cubic yards of concrete, 13.7M pounds of reinforcing steel, and 3.8M pounds of prestressing steel. Schwager Davis Inc. (SDI) was contracted to supply and install the post-tensioning on the project. In one phase SDI installed, stressed and grouted 1.7M pounds of prestressing in an unprecedented 21 days.