



Bridging the Gap

Your Connection to Engineering Services

July 2025

Building Information Modeling Efficiency Award



On April 16, the Senate Bill 1 team presented Efficiencies Awards to the Building Information Modeling (BIM) and Structure Construction teams in coordination with Caltrans BIM4I Program for Total Efficiencies and Best New Efficiency. Awardees include Lynn Hiel, Peyman Kaviani, Bin Shen, Luis Guzman, George Moore, James Ralston, Glen Wheeler, Tony English, and Mina Pezeshpour.

Senate Bill 1 (SB1) Road Repair and Accountability Act of 2017 specifies that Caltrans will implement efficiency measures to generate at least \$100 million in annual savings to be invested back into the maintenance and rehabilitation of the state highway system. Each year, Caltrans looks for innovations that yield savings and publishes these findings in the annual Caltrans Efficiencies Report.

BIM for Infrastructure is an open standard-based, collaborative work method for structuring, managing, and using data about transportation assets and networks throughout their life cycles. Currently, there are 20 ongoing pilot projects statewide utilizing the BIM method.

The American River Bridge widening and deck replacement project used BIM to save money and time by avoiding change orders during construction. The Marysville Railroad Bridge Rehab project used model-based clash detection to update the bridge design before bracket clash issues reached the field undetected. The Director's Order Bridgeville Emergency Project used BIM to identify and correct issues before fabrication of ground anchors began, saving weeks of refabrication delays and money.

Caltrans saved a total of \$3,061,266 on all three projects and 50 construction days were saved.

Want to work on exciting innovative projects like these to further efficiency? Visit the "Working with the Division of Engineering Services" web page to learn more about joining our team.

