



## Fritch Creek Road Emergency Bridge Felton, California

### Civil and Structural Engineering



When the existing 40-ft long steel girder with wood deck bridge providing access to five residences collapsed, homeowners looked to MME to rapidly provide a replacement bridge and restore access to the community.

MME responded immediately and inspected the collapsed bridge. Our professional contacts in the local permitting agencies and construction community proved invaluable as we brought government regulators and heavy engineering operators to the table to quickly develop an efficient and strategic solution. Our approach was to build a temporary bridge with readily available steel girders and re-use the timber deck. This reduced the project cost, avoided environmental impacts and condensed the often lengthy permit approval process to a few days.

Our technical expertise enabled us to prepare a full set of signed and stamped plans and calculations for a bridge capable of supporting a 25-ton fire truck in less than two weeks. In less than four weeks from the incident, our plans were reviewed, approved and issued permits for construction by the County Planning Department, Building Department and CalFIRE Fire Marshall. In this critical project MME demonstrated the ability to lead a team and get it done right, right away.

We are currently preparing final design documents for the permanent replacement bridge, including innovative pier foundation repairs, a wider deck, guardrails, and additional structural support. We are leading a full team of environmental, geotechnical, archeological, survey and engineering professionals.



#### Client Reference:

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#### Budget:

Temporary Bridge: \$75,000  
Permanent Bridge: \$250,000 Est