

FINLEY Project Milestone: First form travelers erected at the Antlers Bridge Replacement project

The first form travelers have been erected at the Antlers Bridge Replacement on I-5 in Shasta County, California.

The new cast-in-place prestressed segmental box girder superstructure consists of 5 spans, 1,942' (592m) long and 104' (31.8m) wide. This challenging structure will be constructed on a new parallel alignment over a lake which involves seasonal water level fluctuations of approximately 50'-70'.

The project is located in a high seismic area and incorporates complex earthquake resistant design details. In addition, a 0.4 mile long section of highway south of the bridge will be realigned to improve roadway safety, the existing 1330' long concrete decked steel truss structure will be demolished and removed.

FINLEY is providing segmental bridge design and construction engineering (3D time dependent longitudinal superstructure analysis) to include: camber analysis, geometry control and construction manuals, providing FINLEYc/p Geometry Control Software, post-tensioning calculations, temporary support falsework structures, integrated segment shop drawings and design office support during construction.

Owner: Caltrans

Contractor: Tutor-Saliba Corporation

Began Construction: November, 2009

Estimated Completion Date: 2014

Construction Costs: \$125M



The first of 4 Form Travelers is sitting on Pier 2



End Span Falsework and segment forms



View of Lake Shasta from atop Pier 2



Aerial view of the form travelers at Pier 2