

ROAD 56 BRIDGE

OVER PACKWOOD CREEK



PROJECT TEAM

Chief Engineer: Kuna Muthusamy, Tulare County

Project Manager: Jason Vivian Tulare County

Project Engineer: Sukhjinder Brar, Tulare County

Hydraulics Engineer: Jan Bowen, Provost & Pritchard

Geotechnical Engineer: Stephen Plauson, Technicon

Environmental Consultant: Bobby Kamansky, Kamansky's Ecological Consulting

Regulatory Agency Permitting: Aaron Bock, Tulare County

This project consists of the replacement of an existing single lane, two-span timber bridge with extensive foundation deterioration due to environmental exposure. The existing timber structure was selected for replacement due to continually required inspection and maintenance in addition to a reduced load carrying capacity. The replacement structure will consist of a two-cell concrete box culvert of sufficient width to carry two lanes of traffic and wide farm equipment. The new culvert will be designed to support all highway legal loads, and the design also incorporates important water training features, including warped wingwalls, rock slope protection and concrete channel lining to improve the hydraulic capacity at the structure. The new structure will have a "flexible" railing system attached to the edge of deck capable of sustaining high impact loads while eliminating the need for barrier end treatments that would have blocked the canal maintenance roads. With low average daily traffic and a short detour distance, Road 56 will be closed to through traffic during construction. Box culvert construction is expected to be complete within a 3-4 month window.

KEY FEATURES

- Double-Cell Concrete Box Culvert
- Short Dry Window for Construction
- Road Closure During Construction
- Warped Wingwalls/Channel Lining

PROJECT FUNDING

HBP:	\$632,000
Toll Credits:	\$72,500

BRIDGE DATA

Bridge Type:	2-Cell Box Culvert
Cell Size:	14-foot x 8.5-foot
Length:	38-foot
Width:	30.75-foot

SCHEDULE

Preliminary Engineering:	Fall 2011 - Summer 2013
Construction:	Winter 2013 - Spring 2014



June 17, 2013

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