

# AVENUE 392 BRIDGE

## OVER SAND CREEK



### PROJECT TEAM

**Engineering Manager:** Benjamin Ruiz Jr., Tulare County  
**Project Manager:** Jason Vivian Tulare County  
**Project Engineer:** Sukhjinder Brar, Tulare County  
**Hydraulics Engineer:** Cordie Qualle, Blair Church & Flynn  
**Geotechnical Engineer:** Stephen Plauson, Technicon  
**Environmental Consultant:** Dawn Marple, Provost & Pritchard  
**Regulatory Agency Permitting:** Aaron Bock, Tulare County



This project consists of the replacement of an existing two lane, four-span reinforced concrete flat slab bridge on reinforced concrete pier walls and reinforced concrete closed end wall abutments. The existing structure which has been flagged as functionally obsolete due to the narrow bridge width, was originally constructed in 1939, therefore making it a difficult candidate for retrofit and widening. The replacement structure will consist of a three-span reinforced concrete flat slab bridge of sufficient width to carry two lanes of traffic and wide farm equipment. The new bridge will be designed to support all highway legal loads, and the slightly longer spans in conjunction with rock slope protection along the embankments, well help to improve the hydraulic capacity at the structure. The new structure will incorporate Type 80 "open type" concrete barriers to match other bridges currently being designed by the County. With low average daily traffic and a short detour distance, Avenue 392 will be closed to through traffic during construction. Bridge construction is expected to be complete within a 4-6 month window depending on weather and creek conditions.

### KEY FEATURES

- 3 Span RC Flat Slab Bridge
- Type 80 Barriers with MBGR Railing at Approaches
- Road Closure During Construction
- Deep Foundations consisting of 20, 24-inch CIDH piles

### BRIDGE DATA

Bridge Type: 3-Span Flat Slab  
Pile type: 20, 24-inch dia CIDH  
Length: 104-feet  
Width: 35.49-feet

### PROJECT FUNDING

HBP:	\$1,357,165
Toll Credits:	\$ 176,835
Total funding:	\$1,533,000

### SCHEDULE

Preliminary Engineering:  
Fall 2012 - Fall 2015

Construction:  
Winter 2016 - Summer 2016

