

**SUBMITTAL TO THE BOARD OF SUPERVISORS  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

119  
A



**FROM:** TLMA - Transportation Dept.

**SUBMITTAL DATE:**  
April 3, 2007

**SUBJECT:** Supplement Number 3 to the Engineering Services Agreement for the Environmental Clearance and Design Engineering Services to Replace the Existing River Road Bridge over the Santa Ana River.

**RECOMMENDED MOTION:** That the Board approve the Supplement Number 3 to the Engineering Services Agreement between the County of Riverside and T.Y. Lin International and authorize the Chairman of the Board to execute the same.

**BACKGROUND:** On February 24, 1998, the Board executed an agreement with T.Y. Lin International to provide environmental and design engineering services to replace the River Road Bridge. This agreement was amended on two occasions (Supplements 1 and 2) to address scope changes due to comments received from the Public Scoping Meetings and feedback from resource agencies, to address changes in the way that Caltrans and FHWA reviews the environmental document, and to revise the environmental document for stage construction.

Environmental Conference

continued (page 1 of 3)

*George A. Johnson*  
George A. Johnson  
Director of Transportation

dlp

(Continued On Attached Pages)

<b>FINANCIAL DATA</b>	Current F.Y. Total Cost:	\$ 973,032.00	In Current Year Budget:	Yes
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	No
	Annual Net County Cost:	\$ 0	For Fiscal Year:	2006/2007
<b>SOURCE OF FUNDS:</b> Highway Bridge Program (HBP, formerly HBRR), Seismic Safety Retrofit (State Share), Measure A/Western, TUMF Northwest Zone (WRCOG)			Positions To Be Deleted Per A-30	<input type="checkbox"/>
			Requires 4/5 Vote	<input type="checkbox"/>

**C.E.O. RECOMMENDATION:**  
**APPROVE**

County Executive Office Signature *[Signature]*

- Policy
- Policy
- Consent
- Consent
- Dept's Recomm.:
- Per Exec. Ofc.:

Prev. Agn. Ref. Dec.20, 2005, 3.39 | District: 2 | Agenda Number:

**ATTACHMENTS FILED  
WITH THE CLERK OF THE BOARD**

**3.21**

The Honorable Board of Supervisors

RE: Supplement Number 3 to the Engineering Services Agreement for the Environmental Clearance and Design Engineering Services to Replace the Existing River Road Bridge over the Santa Ana River.

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This Supplement 3 is being processed to provide contract changes to the design and construction support work tasks for the stage construction.

This stage construction provides that a portion of the new bridge will be built while traffic uses the existing bridge. The traffic will then be shifted to the new bridge; and the existing bridge will be torn down and replaced with the rest of the new bridge. This eliminates the need for a detour road, thus achieving a significant reduction in environmental impacts and in the cost of building a detour road across the River. This change allowed the County to reduce the environmental document from an EIS/EIR to an EA/EIR, thus successfully securing an approved environmental document and the pertinent construction permits much more expeditiously.

We have also performed a refined hydraulics and sedimentation study which recommends a longer bridge, 1200 feet, than the preferred alternative bridge of 800 feet that was identified in the very rough hydraulics analysis done as part of the environmental document. The longer bridge provides for much less sediment build-up, allowing it to be operational during 100-year storms (as opposed to 50-year storms) and also virtually eliminating the need for on-going sediment removal, thus reducing the maintenance costs.

The over all cost savings achieved by changing to stage construction far exceeds the increase in design costs. It allows a substantial reduction in project environmental impacts, expediting the approval and construction permits. This saves an estimated 7 – 10 % per year in inflationary construction costs given the current market, which is substantial for a \$42,000,000 construction estimate. It also reduces the significantly higher environmental mitigation fees that would have been levied on the project due to much larger impacts of a detour road and bridge through the riverbed.

The cost proposal negotiated by County staff with the consultant is for \$973,032.00. The breakdown of this amount by project phases is as follows:

Phase II – Design / PS&E	\$ 883,209.00
Phase III – Construction Bid Support	\$ 1,233.00
Phase IV – Construction Support	\$ 88,590.00

The primary factors included in this contract amendment are:

- Each construction stage requires a separate bridge design.
- Additional design work on the approach roads to accommodate the stage construction.
- Coordination with the new development being proposed in all quadrants of the Archibald Avenue and River Road Intersection, coordination with development design and detailed plans became necessary for staging construction and maintaining traffic on River Road.
- A NEPA Reevaluation / CEQA Addendum Document is required by Caltrans and FHWA to demonstrate that the approved permit thresholds are not exceeded.
- The longer bridge with increased number of piers required additional log of test borings to provide foundation recommendations.

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- Bridge aesthetics and landscape design for replanting / environmental mitigation are now included.
- Since the inception of the project in February 1998, there has been an industry wide increase in fees for engineering and environmental services.

The Phase II, Design / PS&E stage of the project is 65 percent complete. The project right-of-way needs are currently being coordinated with USACE and OCWD. The project is expected to advertise in the last quarter of 2007. The estimated duration for construction is 24 months.

**Recommended Contract Budget**

Original Contract Amount:	\$ 893,064.00
Supplement No.1:	\$ 355,475.00
Supplement No.2:	\$ 635,356.00
<b>Recommended Supplement No.3:</b>	<b><u>\$ 973,032.00</u></b>
 Total Contract Amount:	 \$2,856,927.00

The revised negotiated fees are still well within industry standards based on a percentage of construction.