



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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## **REQUEST FOR PROPOSALS**

# **Sacramento River Viaduct and West End Viaduct Deck Rehabilitation**

**FOR DESIGN AND CONSTRUCTION ON STATE HIGHWAY**

Sacramento/West Sacramento in Sacramento and Yolo Counties

**DISTRICT 03, ROUTE US-50/I-5**

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**CONTRACT NO. 03-2F21U4**

**03- US-50 PM 2.5-3.2/L0-0.06 & I-5 PM 23.6/24.2**

**Project ID 03130001724**

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**Federal Aid Project  
ACBHNH-000C(362)N**

**Addendum No. 3 Issued October 17, 2013**

The Department issues this Addendum No. 3 to inform Proposers of the following changes and corrections to the RFP.

## **BOOK 2 PROJECT REQUIREMENTS**

The Book 2, Project Requirements, is modified as indicated by the deletions and additions set forth below.

### **Section 1 General**

Section 1.3.3 “General Description” is modified as indicated below:

#### ***1.3.3 General Description***

The Design-Builder shall not rely on the physical description contained in this Section 1 to identify all Project components. The Design-Builder shall determine the full scope of the Project via a thorough examination of the RFP and the Project Site, or as may be reasonably inferred from such examination.

The Project nominally consists of the following:

#### **Sacramento River Viaduct (Br. No. 24-0004L/R):**

- Place 3/8” multi-layer polymeric overlay throughout limits as shown on Plan Sheets in Reference Information Documents (RID).
- Remove the entire depth of AC overlay on ramp A-6 ~~until such time that the polymer overlay is exposed and no AC exists~~ within the limits shown on Plan Sheets in the RID.
- Place appropriate overlay throughout all on-ramp, off-ramp, and connector-ramp locations in compliance with limits as shown on Plan Sheets in the RID.
- Replace all joint seal, finger joints, and joint seal assemblies throughout structure.
- Remove and replace finger joints and membrane seals in spans 22, 25 and Ramp A2 with joint seal assemblies.
- Clean, repair, and restore entire drainage system throughout structure and ramp system limits.
- Mitigate for the known ponding issues located on ramp A-6 between Bent A6-41 and A6-42.
- Mitigate for the known ponding issues located on ramp A-13 between Bent A13-27 and A13-28.
- Replace all existing 3-piece drainage grates with 1-piece drainage grates or Department approved alternate design grates.
- Replace approach slabs at Abutment 44L and 44R of the Mainline Structures with Type R(30S) approach slabs

#### **West End Viaduct (Br. No. 24-0069L/R):**

- Place 3/4” polyester concrete overlay throughout structure limits as shown on Plan Sheets included in the RID.
- Place appropriate overlay throughout all on-ramp, off-ramp, and connector-ramp locations in compliance with limits as shown on Plan Sheets included in the RID.
- Replace all joint seal, finger joints, and joint seal assemblies throughout structure.

- Clean, ~~repair~~, and restore the entire drainage system throughout structure and ramp system limits as shown on Plan Sheets included in the RID.
- Replace all existing 3-piece drainage grates with 1-piece drainage grates or Department approved alternate design grates.
- Remove the entire depth of AC overlay on ramp I-22 ~~until such time that the polymer overlay is exposed and no AC exists~~ within the limits shown on Plan Sheets in the RID.

**General:**

- Environmental compliance
- Signing and striping
- Business development and public information activities
- Maintain, repair, and restore existing ramp metering systems to normal functioning condition, if the Design-Builder's work in any way, shape, or form affects or damages said metering systems.
- Traffic handling and public safety
- Erosion control including slope stabilization and storm water pollution prevention.

**Section 4 Environmental Compliance**

“Wells” of Section 4.4.1.1 “Contaminated Materials” is modified as indicated below:

*Wells*

Prior to the start of construction, the Design-Builder shall locate all wells, including active and inactive potable and non-potable wells, piezometers, abandoned wells, and monitoring wells within ~~the Project limits~~ within 100 feet of any ground disturbing activities. The Design-Builder shall provide recommendations on which wells shall be sealed. Written notification will be given to the Design-Builder whether to seal the wells. A Design-Builder licensed by the California Department of Health in accordance with the Water Well Construction Code, California Rules, shall seal the wells. For any wells that must remain in place during construction (typically monitoring wells), the Design-Builder shall protect the wells and conduct all activities in a manner that will not damage or jeopardize the wells. Replacement or repair of wells damaged by the Design-Builder shall be at the expense of the Design-Builder.

Section 4.5.1 “Environmental Management Plan (EMP)” is modified as indicated below:

***4.5.1 Environmental Management Plan (EMP)***

The Design-Builder shall submit an EMP ~~90~~30 days prior to construction that must be approved prior to construction. Response to the EMP submittal will be given within fifteen (15) Days.

## Section 9 Land Surveying

Section 9.5.5 “Survey Base Map” is modified as indicated below:

### 9.5.5 Survey Base Map

The Design-Builder shall provide appropriate base mapping in order to complete the scope of Work in accordance with the contract documents. Mapping shall be provided to the Department a survey base map file in MicroStation v8 format (.DGN). ~~This file shall include:~~

~~Trees or natural vegetation, all public and private roads, curbs, edge of road, power and telephone poles, signs, sidewalks, underground and above ground utilities, manholes, fences, buildings, hydrographic features such as lakes, rivers, streams and natural channels, drainage and irrigation structures, and contours of the original terrain per section 3.8 sub-section B of the Caltrans CADD Users Manual.~~

~~The Design Builder shall provide to the Department in an XML file written in schema 1.0 containing coordinate geometry and feature code information for the above mentioned utilities, property information, centerline alignments, and survey control items.~~

The Design-Builder shall provide to the Department in an XML file written in schema 1.0 consisting of all as-built storm sewer, roadway drainage, and structure drainage related systems.

All survey files shall be delivered within thirty (30) Working Days of Substantial Completion of the Project.

## Section 12 Drainage/Hydraulics

Section 12.3 “Design Requirements” is modified as indicated below:

### 12.3 Design Requirements

Drainage facilities shall be compatible with existing and/or proposed drainage systems in adjacent properties and shall preserve existing drainage patterns. Where drainage patterns must be changed from existing patterns, the Design-Builder shall secure all permits, drainage easements, local agency and Department approval prior to construction of any drainage facilities.

The Design-Builder shall develop a Project Drainage Overview Map, which shall serve as the base plan for final drainage design. The Project Drainage Overview Map shall show the existing drainage features and proposed Project drainage master plan, including drainage areas and contributing flows of existing and proposed drainage. The Project Drainage Overview Map shall also show impacts from the Project and proposed mitigation within the Map extents; ~~and all waters of the State, outstanding resource value waters and impaired waters within 2,000 feet of the Project, or waters receiving Project runoff~~ to the point at which project runoff and drainage has exited the structure drainage system and entered an existing drainage system, and comply with permit or local agency requirements.

## Section 13 Structures

Section 13.4.2 “Bridge Deck Joint Seals” is modified as indicated below:

### ***13.4.2 Bridge Deck Joint Seals***

The existing joint seals shall be replaced in accordance with the scope of work set forth in the contract documents. Any proposed changes to the scope of work or contract documents shall be submitted to the Department in accordance with the contract documents.

The Design-Builder shall clean the ~~bridge deck~~ joint seals to a depth determined by the Design-Builder prior to placing the new joint seal assemblies. The Design-Builder shall ensure that the depth is adequate to allow the new joint seal assemblies to function.

The Design-Builder shall utilize the following parameters for the joint seal rating calculations:

Maximum Temp: 112 degrees F

Minimum Temp: 22 degrees F

Range: 90 degrees F

The Design-Builder shall submit Joint Movements Calculations, Exhibit 13-A Joint Movements Calculation (DSD-D-0129) for every location requiring the placement of new joint seal assemblies.

Section 13.4.5 “Barrier Rail” is modified as indicated below:

### ***13.4.5 Barrier Rail***

*West End Viaduct (Br. No. 24-0069L/R)*

The Design-Builder shall ensure existing barrier rail heights are maintained. The polyester concrete may be tapered within the shoulder to 1/4-inch minimum thickness at the face of barrier rail. Grinding next to the face of barrier is allowed, but shall be no more than 1/4-inch deep. ~~The Design-Builder shall not grind the shoulder sections of the bridge deck to meet barrier rail height requirement.~~

*Sacramento River Viaduct No. (Br. No. 24-0004L/R)*

The Design-Builder shall place ~~a 3/8” thick multi-layer~~ the polymer overlay from face of barrier to face of barrier, without utilizing a taper to conform to existing barrier.

Section 13.4.6 “Polyester Concrete Overlay” is modified as indicated below:

### ***13.4.6 Polyester Concrete Overlay***

The Design-Builder shall place a 3/4-inch polyester concrete overlay throughout the structure limits as shown on the preliminary plans included in the RID.

Polyester concrete overlay shall conform to the requirements of the *Caltrans Standard Specifications and Special Provisions*.

The Design-Builder shall determine the final grade and cross slope and submit to Department for Approval prior to start of overlay work.

The Department shall Approve the exact percentage of polyester resin binder.

The Contract Price shall include a lump sum price “Furnish Polyester Concrete” for the following quantity:

- 44,000 Cubic Feet

The lump sum price specified for place polyester concrete overlay shall include all work required for preparation of bridge deck and placement of polyester concrete overlay including traffic control. The bridge deck shall be prepared in conformance with the Caltrans Standard Specifications.

Section 13.4.7 “Multi-layer Polymer Overlay” is added as indicated below:

**13.4.7 Multi-layer Polymer Overlay**

The Design-Builder shall place a 3/8-inch multi-layer polymer layer throughout the structure limits as shown on the preliminary plans included in the RID.

Multi-layer Polymer shall conform to the requirements set forth in nSSP 15-5.09 in Book 3.

The bridge deck shall be prepared as for polyester concrete in conformance with the Caltrans Standard Specifications.

**Section 18 Maintenance of Traffic**

Section 18.2.3 “Traffic Management Plan” is modified as indicated below:

***18.2.3 Transportation Management Plan***

The Design-Builder shall develop, implement, and maintain a Transportation Management Plan (TMP) that includes the following items:

- Identify, address and resolve project-related construction traffic impact issues on the project area roadways, and shall recommend mitigation measures for project related construction traffic impacts,
- Descriptions of the duties of the Traffic Engineering Manager, Traffic Control Supervisor and other personnel with Maintenance Of Traffic (MOT) responsibilities.
- A Traffic Management Plan Checklist completed under the direction of the Traffic Engineering Manager. See attachment 18-A.
- Procedures to identify and incorporate the needs of emergency service providers, law enforcement entities, local governments and agencies, and other related corridor users.
- Procedures to address special circumstances such as equipment malfunctions, traffic incidents, lane closures not reopening on time, motorist property being damaged and special events.

- Procedures to modify the TMP as needed to adapt to current Project circumstances.
- Procedures to communicate TMP information to the Design-Builder’s public information personnel, the Department’s Public Information Office, and notify the public of Maintenance of Traffic issues in conjunction with the requirements of Book 2, Section 3.
- The TMP shall minimize project related traffic delays and potential accidents by the effective application of traditional traffic mitigation strategies and an innovative combination of public and motorist information, demand management, incident management, system management, alternate route strategies, construction strategies, or other strategies,
- The Transportation Management Plan must be submitted for review at least ~~60~~30 days prior to any construction, and must be approved before issuance of NTP2,
- No lane closure, on either the mainline or ramp closures will be allowed prior to approval of the TMP.

### BOOK 3 APPLICABLE STANDARDS

The Book 3, Applicable Standards, is modified as indicated by the deletions and additions set forth below.

#### Section 1 “Index of Standards, Manuals, Guidelines and References”

Reference No. 324 is modified as indicated below:

324	Caltrans	<a href="#">Standard Special Provisions (SSPs) Updates</a>	<del>February 17, 2012</del> <a href="#">July 19, 2013</a>	W	√
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#### Section 5 Modifications to Special Provisions

Section 5.1 “General” is modified as indicated below:

##### 5.1 General

The following [Draft Standard Special Provision \(SSP\) and](#) non-Standard Special Provisions (nSSP) listed in this Section 5 shall be used when the item specified is included in the work for this Project.

Section 5.2 “Draft SSPs” is added as indicated below:

##### 5.2 ~~Reserved~~**Draft SSPs**

[The following draft SSP is in draft form and shall be edited by the Design-Builder according to the instructions in the hidden text included in the SSP, and the guidelines given in the Department’s Ready-To-List Guide. Once edits are complete, the SSP shall be submitted to the Department for review and approval.](#)

1. [Section 15-5.06 “Placing Polyester Concrete Overlay on Bridges”](#)

Section 5.3 “Approved nSSPs” is modified as indicated below:

### **5.3 Approved nSSPs**

The following nSSP is pre-approved for use on this project and shall be edited by the Design-Builder only according to the instruction in the hidden text included in the nSSP, and the guidelines given in the Department’s Ready-To-List Guide. This nSSP shall follow the same process as Standard Special Provisions (SSPs) for inclusion in RFC packages.

~~2.~~ Section 15-5.09 “Multilayer Polymer Overlay” — ~~Add Section 15-5.09~~

Add Draft SSP “Placing Polyester Concrete Overlay on Bridges” with the Draft SSP attached to this addendum.

# 1. Polyester Concrete Overlay on Bridges

## Add Section 15-5.06:

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**Section 15-5.06. Use if placing polyester concrete overlays on bridges.**

**1.**

**Pars. 2–5. Use if overlay work is performed within 100 feet of a residence, business, or public space. Include a bid item for a public safety plan.**

**Add to section 15-5.06A(2):**

**2**

Submit a public safety plan. The public safety plan must include:

1. Public notification letter with a list of delivery and posting addresses. The letter must describe the work to be performed and state treatment work locations, dates, and times. Deliver the letter to residences and businesses within 100 feet of the overlay work and to local fire and police officials at least 7 days before starting overlay activities. Post the letter at the job site.
2. Airborne emissions monitoring plan. A CIH certified in comprehensive practice by the American Board of Industrial Hygiene must prepare and execute the plan. The plan must have at least 4 monitoring points, including the mixing point, application point, and point of nearest public contact. Monitor airborne emissions during overlay activities.
3. Action plan for protecting the public if airborne emissions levels exceed permissible levels.
4. Copy of the CIH's certification.

**3.**

Submit results from airborne emissions monitoring of the trial overlay before starting production work.

**4**

Submit results from production airborne emissions monitoring as an informational submittal after completing overlay activities.

**5**

**Add to the list in the 2nd paragraph of section 15-5.06A(3):**

8. Demonstrate the suitability of the airborne emissions monitoring plan

**6. Use if no deck surface is removed before placing the overlay.**

**Replace the 13th paragraph of section 15-5.06C(1) with:**

The approximate rate of application of methacrylate resin is 90 sq ft/gal.