

Memorandum

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: January 22, 2015

Reference No.: 2.5d.
Action Item

From: NORMA ORTEGA
Chief Financial Officer

Prepared by: Rachel Falsetti, Chief
Division of
Transportation Programming

Subject: **ALLOCATION FOR PROJECT THAT EXCEEDS THE PROGRAMMED CONSTRUCTION AMOUNT BY MORE THAN 20 PERCENT RESOLUTION FP-14-34**

RECOMMENDATION:

The California Department of Transportation (Department) recommends that the California Transportation Commission (Commission) allocate \$4,338,000 for one State Highway Operation and Protection Program (SHOPP) project identified below.

ISSUE:

Additional funds are needed for one programmed project in order to advertise the construction contract.

RESOLUTION:

Resolved, that \$4,338,000 be allocated from the Budget Act of 2013, Budget Act Item 2660-302-0042 and 2660-302-0890 to provide additional funds for the project identified below.

<u>Project</u>	<u>Dist-Co-Rte</u>	<u>Original Programmed Amount</u>	<u>Current Programmed Amount</u>	<u>Program Adjustment</u>	<u>Revised Allocation</u>	<u>% Increase Above Current Programmed Amount</u>
1	05-Mon-1	\$3,114,000	\$3,114,000	\$1,224,000	\$4,338,000	39.3%

Project # Allocation Amount County Dist-Co-Rte Postmile	Location Project Description	PPNO Program/year Prm'd Amount Project ID Adv Phase EA	Budge Year Item # Fund Type Program Code	Amount by Fund Type
2.5d. Allocation for Project that Exceeds the Programmed Construction Amount by more than 20 Percent				Resolution FP-14-34
1 \$4,338,000 Monterey 05-Mon-1 28.0/28.6	Near Lucia, from 0.1 mile south of Big Creek Bridge to 2.8 miles south of Dolan Creek Bridge. <u>Outcome/Output:</u> Construct a 2-lane wide side-hill viaduct to restore eroded southbound lane and re-open the roadway to full vehicle traffic. Preliminary <u>Engineering</u> <u>Programmed</u> <u>Expended</u> PA&ED \$500,000 \$ 426,741 PS&E \$500,000 \$354,186 R/W Sup \$ 100,000 \$12,438 (Construction Support: \$1,000,000)	05-2574 SHOPP/14-15 \$3,114,000 0514000072 4 1F890	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.131	\$87,000 \$4,251,000

RECOMMENDATION:

The Department recommends that this request for \$4,338,000 be approved to allow this project to be advertised.



PROJECT DESCRIPTION:

This project is located in Monterey County north of the town of Lucia on Route 1, from 0.1 mile south of Big Creek Bridge to 2.8 miles south of Dolan Creek Bridge. This stretch of Route 1, commonly referred to as the “Big Sur Coast” is vulnerable to damage caused by ocean wave run-up, underground springs, and slides activated by precipitation.

The section of highway has experienced damage dating back to the “El Nino” storms of 1982. Through the years high rainfall and wave action have continued to erode the embankment. The continuing erosion has resulted in cracks in the pavement and has also created an active spring at the base of the embankment.

In late November 2013, a portion of the southbound lane collapsed due to erosion necessitated a closure. One-way reversible traffic control, concrete barrier railing, and rock nets on the slopes were installed through an emergency contract. The emergency contract was allocated \$350,000 on December 17, 2013, and a supplemental of \$235,000 to increase the rock netting coverage area was allocated on March 24, 2014. The two allocations were reported at the March and May 2014 Commission meetings respectively.

A follow-up permanent restoration project to fully stabilize and restore the highway to its’ pre-damaged condition was programmed in the SHOPP on April 8, 2014. The scope of work initially programmed included constructing both a 175-foot long, two-lane wide side-hill and a retaining wall on a spread footing and a roadway with four-foot shoulders to accommodate bicycle travel. To quickly restore the site to pre-damage conditions and minimize the inconvenience to the travelling public, the Department accelerated the environmental studies, engineering, permitting and delivery of this permanent restoration project.

FUNDING STATUS:

This permanent restoration project is programmed in the 2014 SHOPP in Fiscal Year 2014-15 for \$3,114,000 in construction capital funding.

REASONS FOR COST INCREASE:

Several unanticipated but necessary features were added to ensure constructability of the project.

- **Soldier Pile Retaining Wall:** Initially, a retaining wall on a spread concrete footing was included in the project scope. However, as the engineering and geotechnical studies progressed, the Department determined a retaining wall on a pile foundation was necessary. This change was made both as a result of detailed geotechnical studies and to improve access to the existing rock netting on the slope by maintenance forces. In addition, the estimate contained in the Project Initiation Document and Project Report significantly underestimated the cost of the retaining wall because a retaining wall on a pile foundation is more costly than one on a spread concrete footing. **Cost: \$500,000.**

- Coastal Development Permit project requirements: This additional cost includes addition of a wood bench, large boulders, placing utilities underground, and special staining on metal surfaces. These were all intended to enhance the public safety and the viewing experience of the coast and were unexpected additions to the project. **Cost: \$50,000.**
- Construct Items unit price increases: The cost of many of the structure items included in this project for the construction of the viaduct such as structure excavation, structural concrete, bar reinforcing steel, and concrete piling, have been trending upward since the time the project was programmed, as indicated by recent bid results on other projects. A similar project located just south of this project, where bids were opened in November 2014, came in with a low bid that was 15 percent over the Engineer's estimate. **Cost: \$476,000.**
- Increase project contingency: Given both the complex nature of the project and the rugged location above the Pacific Ocean, the Department decided to raise the contingency from 5 percent to 10 percent. **Cost: \$198,000.**

The increases above total \$1,224,000 over the currently programmed amount of \$3,114,000. The Department Engineer's estimate has been revised to reflect these conditions and actual present day bid information.

FUNDING OPTIONS:

OPTION A: Approve this request as presented above, for \$4,338,000 to allow this project to be advertised and awarded.

OPTION B: Deny this request and direct the Department to revise the project to remain within the allocated amount. The Department has considered this option and determined that reducing the scope of work on this project and executing another project to complete the deleted work later would result in greater cost and more disruption to the traveling public.

RECOMMENDED OPTION:

The Department recommends that this request for \$4,338,000, as presented in Option A above, be approved to allow this project to be advertised and awarded.