

Memorandum

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: October 21-22, 2015

Reference No.: 2.5d.(1)
Action Item

From: NORMA ORTEGA
Chief Financial Officer

Prepared by: Bruce De Terra, Chief
Division of
Transportation Programming

Subject: **ALLOCATION FOR PROJECT WITH COSTS THAT EXCEED THE PROGRAMMED
AMOUNT BY MORE THAN 20 PERCENT
RESOLUTION FP-15-15**

RECOMMENDATION

The California Department of Transportation (Department) recommends the California Transportation Commission (Commission) allocate \$5,990,000 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.

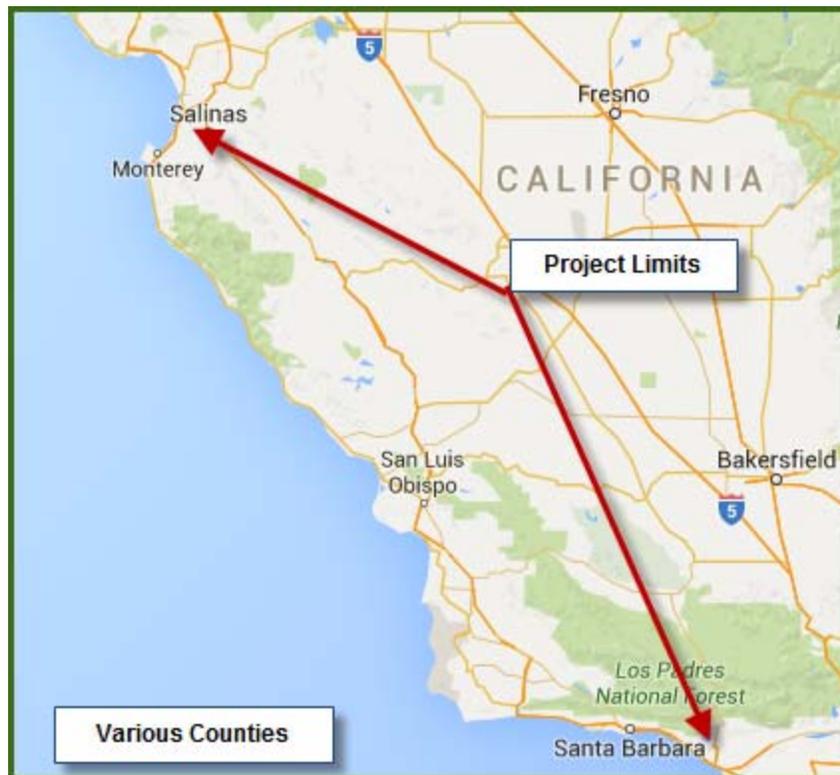
RESOLUTION

Resolved, that \$5,990,000 be allocated from the Budget Act of 2014, Budget Act Item 2660-302-0042 and 2660-302-0890, to provide funds to advertise the following project.

<u>Dist-Co-Rte</u>	<u>Programmed Amount</u>	<u>Program Adjustment</u>	<u>Allocation Request</u>	<u>% Increase Above Programmed Amount</u>
05-Var-Var	\$3,000,000	\$2,990,000	\$5,990,000	99.7%

PROJECT DESCRIPTION

This project is located in Santa Barbara, San Luis Obispo, Monterey, San Benito, and Santa Cruz counties. The project will replace 950 freeway exit signs and posts at various locations. Existing advance exit guide signs have become weathered and faded. Most of these signs do not have retro-reflecting sheeting and do not meet the updated federal highway standards.



FUNDING STATUS

This project was amended into the 2014 SHOPP on June 13, 2014. It is currently programmed in Fiscal Year 2014-15 for \$3,000,000. This allocation request for \$5,990,000 is an increase of 99.7 percent above the programmed amount.

REASON FOR INCREASE

The main items that contributed to the cost increase above the programmed amount are as follows:

Laminated Wood Box Posts (LWBP): There are over 1,160 laminated wood posts required for this project. It was originally assumed that many of the existing LWBPs would be salvageable and/or new posts could be retrieved from the Department's Division of Maintenance. However, as the project proceeded through design, it was determined that neither option was feasible due to the size of the signs and the condition of existing wood posts.

Sign Panel Size: It was assumed that the new sign panels would be the same size as the existing ones. However, larger sign panels are needed due to California Manual on Uniform Traffic Control devices (MUTCD) that require exit numbers to be placed in the top right corner of all exit signs. This resulted in an increase in the cost of the slightly larger sign panels.

Sign Quantity: The total number of signs for this project has increased from 866 to the current estimate of 950. It was assumed that a total of three signs would be required at each exit ramp. However, during the Design phase, it became clear that the project will require four signs to be installed at each freeway exit ramps.

Quick Change Post Sleeves: During constructability review, Maintenance requested that metal post sleeves embedded in reinforced concrete be added to the project to reduce maintenance staff exposure. This resulted in a cost increase to the original programmed amount.

Unit Cost of Sheeting: The unit cost of the new Type XI retro-reflective sheeting is four times the programmed amount. During the project report, there had been no history for the estimate of this type of material. With recent bid results in the past few months for similar projects, estimates for the cost of the new sheeting have become more available.

LESSONS LEARNED

In order to avoid issues with ordering Laminated Wood Box Posts (LWBP) in the future, the Department has developed specifications that will make the LWBP a contractor furnished and installed item. Furthermore, future sign projects will utilize unit cost information obtained from this project to prepare more accurate estimates.

DETERMINATION

The Department has determined that reducing the scope by eliminating some of the exit signs and programming another project to complete all the required work would result in a greater cost to the public and recommends that this request for \$5,990,000 be approved to allow this project to be advertised.

Attachment

2.5 Highway Financial Matters

Project # Allocation Amount County Dist-Co-Rte Postmile	Location Project Description Allocation Histroy	PPNO Program/Year Prgm'd Amount Project ID Adv Phase EA	Budget Year Item # Fund Type Program Code	Amount by Fund Type															
2.5d.(1) Allocations for Projects with Cost Increase Greater than 20 Percent			Resolution FP-15-15																
1 \$5,990,000	In Santa Barbara, Monterey, San Benito, Santa Cruz and San Luis Obispo counties at various locations. <u>Outcome/Output:</u> Upgrade 950 freeway exit guide signs with retro-reflective sheeting and replace road sign posts to meet current standards. This project is necessary to improve highway efficiency and safety for vehicle traffic.	05-4900 SHOPP/14-15 \$3,000,000	2014-15 302-0042 SHA	\$120,000															
Various 05-Var-Var. Var.		0514000120 4 0J490	302-0890 FTF 20.20.201.170	\$5,870,000															
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