

# Memorandum

To: CHAIR AND COMMISSIONERS

CTC Meeting: February 13-14, 2008

Reference No.: 2.1c.(1) – **REVISED**  
Action Item

From: CINDY McKIM  
Chief Financial Officer

Prepared by: Rachel Falsetti  
Acting Division Chief  
Transportation Programming

Subject: **CMIA PROGRAM AMENDMENT**  
**RESOLUTION CMIA-PA-0708-003**

## **RECOMMENDATION:**

The Department of Transportation (Department) recommends the California Transportation Commission (Commission) approve Corridor Mobility Improvement Account (CMIA) **Program** Amendment, Resolution CMIA-PA-0708-003.

## **ISSUE:**

The Department, Solano Transportation Authority and Metropolitan Transportation Commission request an amendment to the Corridor CMIA **Program** to:

- Split the CMIA project into three construction contracts.
- Extend the Construction Contract Acceptance (CCA) milestone from December 2009 to December 2010 for the Traffic Operations System (TOS) and ramp metering contract.
- Correct a PPNO discrepancy.
- Correct a post mile discrepancy.
- Add \$587,000 in Federal Demonstration (Demo) funds to Construction.

The request minimizes construction risks, reduces traveler inconvenience and eliminates potential throw-away costs, while delivering congestion relief and critically needed rehabilitation work on an aggressive schedule.

## **BACKGROUND:**

This I-80 HOV lanes project adds capacity to reduce congestion, promote carpooling and improve mobility in the corridor. The project is to construct 8.7 miles of High Occupancy Vehicle (HOV) lanes along eastbound and westbound I-80 in Fairfield, from Red Top Road to Putah Creek. With over 150,000 existing Annual Average Daily Traffic (AADT) vehicles, the opening of the HOV lanes to the public will provide a congestion relief benefit of 10,004 hours of daily vehicle hours of delay. Traffic Operations System improvements such as monitoring stations and ramp metering are also included in the project, per the Project Report approved April 2, 2007.

The pavement along the I-80 corridor in Solano County has substantially deteriorated and the Department has accelerated SHOPP rehabilitation projects by two years to reduce maintenance and enhance safety. These SHOPP projects implement a 20-year life pavement strategy that consists of crack-and-seat of existing concrete pavement and then an overlay of asphalt concrete (AC). Two SHOPP rehabilitation projects overlap the limits of this HOV lanes project by 4.5 miles on the eastern end and by 1.5 miles on the western end.

To coordinate with the SHOPP rehabilitation projects, it is recommended that the CMIA HOV lanes project be split into three packages for maximizing cost effectiveness as follows: 1) HOV Lanes; 2) Top AC Layer combined with SHOPP rehabilitation contract; and 3) TOS and ramp metering. The scope of each of these packages was included in the approved April 2, 2007 Project Report. Each construction package would require a separate Commission action to allocate the CMIA funds for the projects.

1. The first construction package (\$66.8M, I-80 HOV Lanes, PPNO 8320B) is the construction of 8.7 miles of HOV lanes in each direction. This package will deliver 100 percent of the CMIA congestion relief benefit to the public, per approved CMIA schedule.
2. The second construction package (\$3.8M, I-80 HOV Lanes – Paving, PPNO 8320D) includes a contribution of \$3.8 million to an accelerated SHOPP project to place the top AC layer for the full structural section of the HOV lanes within the overlap limits. Completing the HOV lanes structural section along with the SHOPP project will reduce overall construction costs and avoid conflicts between contractors. In addition, the pavement across all lanes and median of I-80 will have a consistent top AC layer when only one contractor does the work. This package will be completed, per approved CMIA schedule.
3. The third construction package (\$10.0 M, I-80 HOV Lanes - Ramp Metering, PPNO 8320C) is the construction of the TOS and ramp metering. These elements were included in the original CMIA application. The second construction project above, which is a SHOPP project, includes crack-seat and overlay work. This would have damaged the TOS and ramp metering work included in this construction package. Therefore it was determined to complete the TOS and ramp metering work following the completion of the pavement rehabilitation. This package will achieve the CCA milestone with a one-year variance from the approved CMIA schedule. The additional \$587,000 provides for escalation due to the schedule variance.

Major milestones (completion dates) for the three contracts are identified below.

PPNO	Environmental	Design	Right of Way	Ready to List	Advertise	Approve Contract	CCA
8320B	4/1/07	9/26/07	12/1/07	1/4/08	4/1/08	5/1/08	12/1/09
8320D	9/11/06	8/7/08	11/3/08	11/14/08	12/29/08	3/31/09	12/1/09
8320C	4/1/07	10/1/09	1/10/10	1/15/10	3/15/10	6/1/10	12/1/10

There are no significant risks associated with the proposed project split. No right of way acquisition and utility relocation issues are expected for either project. Risks involving construction have been

addressed within various contract documents by specifying clear work limits and schedule coordination among various activities.

During the CMIA project nomination process, an incorrect PPNO and incorrect post miles were inadvertently reported. The actual physical project limits, however, are the same as documented in the original CMIA application. This amendment will correct the post mile range to make it consistent with the actual physical project limits.

### **RESOLUTION:**

Resolved, with all conditions stipulated still in effect, that the California Transportation Commission hereby revises the CMIA **Program** for the PPNO 8320B and also designates PPNO 8320C and PPNO 8320D as follows:

### **Revises:**

County	District	PPNO	EA	Element	Const. Year	PM Back	PM Ahead	Route/Corridor						
Solano	4	<del>0367D</del> 8320B	0A531	CO	2007-08	<del>10.2</del> 11.4	<del>19.3</del> 20.1	80						
Implementing Agency: (by component)		PA&ED	STA			PS&E	STA							
		R/W	STA			CON	Caltrans							
RTPA/CTC:	Metropolitan Transportation Commission													
Project Title:	I-80 HOV Lanes, I-80/I-680/12 to Putah Creek													
Location:	From Red Top Road to Putah Creek, Fairfield													
Description:	Add HOV lanes in both directions													
<b>(DOLLARS IN THOUSANDS)</b>														
FUND	TOTAL	Project Totals by Fiscal Year						Project Totals by Component						
		Prior	06/07	07/08	08/09	09/10	10/11	R/W	CON	PA&ED	PS&E	R/W Supp	CON Supp	
<b>CMIA</b>														
Existing	56,210			56,210					48,540					7,670
Change	(12,026)			(12,026)					(10,707)					(1,319)
Proposed	44,184			44,184					37,833					6,351
<b>Federal Demo TEA21</b>														
Existing	14,790			14,790					14,790					
Change	587			587					587					
Proposed	15,377			15,377					15,377					
<b>Loc Funds</b>														
Existing	9,000	9,000								4,475	4,525			
Change	(1,800)	(1,800)								0	(1,800)			
Proposed	7,200	7,200								4,475	2,725			
<b>Total</b>														
Existing	80,000	9,000		71,000					63,330	4,475	4,525			7,670
Change	(13,239)	(1,800)		(11,439)					(10,120)	0	(1,800)			(1,319)
Proposed	66,761	7,200		59,561					53,210	4,475	2,725			6,351

**Adds:**

County	District	PPNO	EA	Element	Const. Year	PM Back	PM Ahead	Route/Corridor					
Solano	4	8320D	0A533	CO	2008-09	15.4	20.1	80					
<b>Implementing Agency: (by component)</b>		<b>PA&amp;ED</b>	Caltrans				<b>PS&amp;E</b>	Caltrans					
		<b>R/W</b>	Caltrans				<b>CON</b>	Caltrans					
<b>RTPA/CTC:</b>		Metropolitan Transportation Commission											
<b>Project Title:</b>		I-80 HOV Lanes - Paving											
<b>Location</b>		From Route 12 East to Putah Creek, Fairfield											
<b>Description:</b>		HOV lane and median paving.											
<b>(DOLLARS IN THOUSANDS)</b>													
FUND	TOTAL	Project Totals by Fiscal Year						Project Totals by Component					
		Prior	06/07	07/08	08/09	09/10	10/11	R/W	CON	PA&ED	PS&E	R/W Supp	CON Supp
<b>CMIA</b>													
Existing	0				0			0					0
Change	3,800				3,800			3,400					400
Proposed	3,800				3,800			3,400					400
<b>Total</b>													
Existing	0				0			0					0
Change	3,800				3,800			3,400					400
Proposed	3,800				3,800			3,400					400

**And adds:**

County	District	PPNO	EA	Element	Const. Year	PM Back	PM Ahead	Route/Corridor					
Solano	4	8320C	0A532	CO	2009-10	11.4	20.1	80					
<b>Implementing Agency: (by component)</b>		<b>PA&amp;ED</b>	STA				<b>PS&amp;E</b>	STA					
		<b>R/W</b>	STA				<b>CON</b>	Caltrans					
<b>RTPA/CTC:</b>		Metropolitan Transportation Commission											
<b>Project Title:</b>		I-80 HOV Lanes - Ramp Metering											
<b>Location</b>		From Red Top Road to Putah Creek, Fairfield											
<b>Description:</b>		Construct TMS and ramp metering on mainline, ramps, and connectors.											
<b>(DOLLARS IN THOUSANDS)</b>													
FUND	TOTAL	Project Totals by Fiscal Year						Project Totals by Component					
		Prior	06/07	07/08	08/09	09/10	10/11	R/W	CON	PA&ED	PS&E	R/W Supp	CON Supp
<b>CMIA</b>													
Existing	0				0			0					0
Change	8,226				8,226			6,907					1,319
Proposed	8,226				8,226			6,907					1,319
<b>Loc Funds - Regional Measure 2</b>													
Existing	0	0						0	0				0
Change	1,800	1,800						300	1,500				
Proposed	1,800	1,800						300	1,500				
<b>Total</b>													
Existing	0	0			0			0	0	0			0
Change	10,026	1,800			8,226			6,907	300	1,500			1,319
Proposed	10,026	1,800			8,226			6,907	300	1,500			1,319

**CMIA-PA-0708-003, AMENDING RESOLUTION CMIA-P-0607-001**

Location Map



04 – Solano

PPNOs 8320B, 8320C, 8320D

Location: Red Top Road to Putah Creek, Fairfield.

Description: Construct 8.7 miles of HOV lanes in each direction and related ramp metering work.

