

# Memorandum

To: CHAIR AND COMMISSIONERS  
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: November 3-4, 2010

Reference No.: 2.1b.(3)  
Information Item

From: NORMA ORTEGA  
Chief Financial Officer

Prepared by: Rachel Falsetti  
Division Chief  
Transportation Programming

Subject: **MULTI-PROGRAM PROJECT AMENDMENT**  
**STIP AMENDMENT 10S-010**  
**TLSP-PA-1011-04**

## **SUMMARY:**

The California Department of Transportation (Department) and the City/County Association of Governments of San Mateo County (C/CAG) propose to amend the 2010 State Transportation Improvement Program (STIP) and the Traffic Light Synchronization Program (TLSP) baseline agreement for the San Mateo County Smart Corridor (PPNO 2140F) project to split the project into four contracts and change the implementing agency for two of these contracts.

The Department will request that the California Transportation Commission (Commission) approve the final TLSP baseline agreement amendment and the requested STIP amendment at the next scheduled Commission meeting following the notice period.

## **BACKGROUND:**

This project is located within the corridor bounded by Route 101 and State Route (SR) 82, from Whipple Avenue (Redwood City) in the south to I-380 (San Bruno) in the north. The project scope consists of deploying various intelligent transportation system (ITS) elements along SR 82 within the state right of way and on local streets that connect to Route 101 and SR 82. Once completed, these improvements are expected to reduce both recurring and non-recurring traffic congestion within the project limits.

### **Split the project into four contracts**

The overall San Mateo County Smart Corridor project, originally conceived as a single project to be implemented by the C/CAG, consists of multiple contracts that are designed and to be sequentially constructed. Based upon the overall corridor layout and the planned deployment and integration of various ITS components, the overall project is proposed to be split in four contracts. These contracts will be implemented by different agencies, including the Department, C/CAG and the City of San Mateo.

#### **Contract 1: San Mateo County Smart Corridor – Demonstration Project (PPNO 2140P)**

This project is located along the Delaware Street and the Saratoga Drive corridor, between the Hillsdale Boulevard and SR 92 in the City of San Mateo. The project will construct various ITS

elements like trailblazer and arterial dynamic message signs, vehicle detection systems, fixed and pan-tilt zoom closed-circuit television cameras. Furthermore, the project scope also consists of upgrading various elements of the communication network, traffic signal system hardware and software, and the implementation of a center-to-center communication hub between the traffic management centers (TMC) of San Mateo County and the Department.

The City of San Mateo will be the implementing agency for this contract.

Contract 2: San Mateo County Smart Corridor – Local project (PPNO 2140F)

This project is located outside the state right of way on various local streets that connect Route 101 and SR 82, between Whipple Avenue in Redwood City to Route 380 in San Bruno. The project will construct various ITS elements like trailblazer and arterial dynamic message signs, vehicle detection systems, fixed and pan-tilt zoom closed-circuit television cameras. Furthermore, the project scope also consists of upgrading various elements of the communication network, traffic signal system hardware and software, and the implementation of a center-to-center communication hub between the traffic management centers (TMC) of San Mateo County and the Department.

The C/CAG will be the implementing agency for this contract.

Contract 3: San Mateo County Smart Corridor – State Project (PPNO 2140Q)

This project is located within the state right of way along SR 82 (El Camino Real) and at the ramps to US 101, from Whipple Avenue in Redwood City to Route 380 in San Bruno. The project will construct various ITS elements like trailblazer and arterial dynamic message signs, vehicle detection systems, fixed and pan-tilt zoom closed-circuit television cameras. Furthermore, the project scope also consists of upgrading various elements of the communication network, traffic signal system hardware and software, and the implementation of a center-to-center communication hub between the traffic management centers (TMC) of San Mateo County and the Department.

The Department will be the implementing agency for this contract

Contract 4: San Mateo County Smart Corridor – Systems Integration (PPNO 2140R)

This project is located in the cities of Redwood City, San Carlos, Belmont, San Mateo, Burlingame, Millbrae, and San Bruno between US 101 and SR 82, from Whipple Avenue in Redwood City to I-380 in San Bruno. The project scope consists of integration of the traffic signal system and the ITS components like arterial dynamic message signs, vehicle detection systems, fixed and pan-tilt zoom closed-circuit television cameras along with the integration of communication network between the traffic management centers (TMC) of San Mateo County and the Department.

The C/CAG will be the implementing agency for this contract.

It should be noted that the Environmental (PA&ED) and the Design (PS&E) work for the overall project is being performed under the parent project (PPNO 2140F), Contract 2. The overall project is proposed to be split only for construction purposes.

### **Update funding plan**

Since the original baseline inadvertently did not identify any funds for the PA&ED, \$400,000 in local funds are being programmed to PA&ED to cover the accrued expenditures. Based upon the updated quantities and the unit prices, the Construction Capital has decreased by \$670,000. In addition, \$2,630,000 is proposed to be reprogrammed from Construction Capital to Construction Support for delivering Contract 2 which will be implemented by the Department. There are minor changes to the PS&E and the Right of Way. All these changes are related to local funds only.

The Metropolitan Transportation Commission and the City of San Mateo concur with the changes described above and shown in the following tables.

**CURRENT “AS PROGRAMMED” SCOPE – San Mateo County Smart Corridor project (PPNO 2140F)**

County	District	PPNO	EA	Element	Const. Year	PM Back	PM Ahead	Route/Corridor					
San Mateo	4	2140F	-	CO	2010-11	0.0	19	82					
<b>Implementing Agency: (by component)</b>	<b>PA&amp;ED</b>	CCAG					<b>PS&amp;E</b>	CCAG					
	<b>R/W</b>	Department					<b>CON</b>	C/CAG					
<b>RTPA/CTC:</b>	Metropolitan Transportation Commission												
<b>Project Title:</b>	San Mateo County Smart Corridors												
<b>Location</b>	Between US 101 and SR 82, from Whipple Avenue (Redwood City) to I-380 (San Bruno).												
<b>Description:</b>	Install traffic signal improvements, CCTVs, trailblazer signs, vehicle detection systems and other ITS elements.												
<b>(DOLLARS IN THOUSANDS)</b>													
FUND	TOTAL	Project Totals by Fiscal Year						Project Totals by Component					
		Prior	10/11	11/12	12/13	13/14	14/15	R/W	CON	PA&ED	PS&E	R/W Supp	CON Supp
<b>Regional Improvement Program (RIP) funds</b>													
Existing	11,000	3,000	8,000					8,000		3,000			0
Change	0	0	0					(530)		0			530
Proposed	11,000	3,000	8,000					7,470		3,000			530
<b>State Bond - Traffic Light Synchronization Program (TLSP) funds</b>													
Existing	10,000	10,000	0					10,000					0
Change	0	(9,000)	9,000					(1,000)					1,000
Proposed	10,000	1,000	9,000					9,000					1,000
<b>Local Funds</b>													
Existing	4,082	4,082	0					80	4,000	0	2	0	0
Change	0	(3,330)	3,330					(40)	(1,770)	400	300	10	1,100
Proposed	4,082	752	3,330					40	2,230	400	302	10	1,100
<b>Congestion Mitigation and Air Quality (CMAQ) funds</b>													
Existing	367	367								367			
Change	0	0								0			
Proposed	367	367								367			
<b>Total</b>													
Existing	25,449	17,449	8,000					80	22,000	0	3,369	0	0
Change	0	(12,330)	12,330					(40)	(3,300)	400	300	10	2,630
Proposed	25,449	5,119	20,330					40	18,700	400	3,669	10	2,630

The current scope is proposed to be split into four contracts as follows:

**CONTRACT 1: San Mateo County Smart Corridors project – Demonstration (PPNO 2140P)**

County	District	PPNO	EA	Element	Const. Year	PM Back	PM Ahead	Route/Corridor					
San Mateo	4	2140P	4A921	CO	2010-11	0.0	19	82					
Implementing Agency: (by component)	PA&ED	C/CAG				PS&E	C/CAG						
	R/W	-				CON	City of San Mateo						
RTPA/CTC:	Metropolitan Transportation Commission												
Project Title:	San Mateo County Smart Corridor - Demonstration												
Location	Located along the Delaware Street and the Saratoga Drive corridor, between the Hillsdale Boulevard and SR 92.												
Description:	Install traffic signal improvements, CCTVs, trailblazer signs, and vehicle detection systems.												
<b>(DOLLARS IN THOUSANDS)</b>													
FUND	TOTAL	Project Totals by Fiscal Year						Project Totals by Component					
		Prior	10/11	11/12	12/13	13/14	14/15	R/W	CON	PA&ED	PS&E	R/W Supp	CON Supp
<b>State Bond - Traffic Light Synchronization Program( TLSP)</b>													
Existing	0	0						0					
Change	1,000	1,000						1,000					
Proposed	<b>1,000</b>	<b>1,000</b>						<b>1,000</b>					
<b>Local Funds</b>													
Existing	0	0						0					
Change	500	500						500					
Proposed	<b>500</b>	<b>500</b>						<b>500</b>					
<b>Total</b>													
Existing	0	0						0					
Change	1,500	1,500						1,500					
Proposed	<b>1,500</b>	<b>1,500</b>						<b>1,500</b>					

**CONTRACT 2: San Mateo County Smart Corridor project – Local (PPNO 2140F)**

County	District	PPNO	EA	Element	Const. Year	PM Back	PM Ahead	Route/Corridor				
San Mateo	4	2140F	4A922	CO	2010-11	0.0	19	82				
Implementing Agency: (by component)	PA&ED	C/CAG			PS&E	C/CAG						
	R/W	C/CAG			CON	C/CAG						
RTPA/CTC:	Metropolitan Transportation Commission											
Project Title:	San Mateo County Smart Corridor - Local											
Location	Located between US 101 and SR 82 corridor, from Whipple Avenue to I-380 on major local arterials.											
Description:	Install traffic signal improvements, CCTVs, trailblazer signs, and vehicle detection systems.											
<b>(DOLLARS IN THOUSANDS)</b>												
FUND	TOTAL	Project Totals by Fiscal Year					Project Totals by Component					
		Prior	10/11	11/12	12/13	13/14	14/15	R/W	CON	PA&ED	PS&E	R/W Supp
<b>Regional Improvement Program (RIP) funds</b>												
Existing	11,000	3,000	8,000					7,470		3,000		530
Change	(2,730)	0	(2,730)					(2,200)		0		(530)
Proposed	<b>8,270</b>	3,000	<b>5,270</b>					<b>5,270</b>		3,000		<b>0</b>
<b>State Bond - Traffic Light Synchronization Program (TLSP) funds</b>												
Existing	10,000	10,000						9,000				1,000
Change	(10,000)	(10,000)						(9,000)				(1,000)
Proposed	<b>0</b>	<b>0</b>						<b>0</b>				<b>0</b>
<b>Local Funds</b>												
Existing	4,082	752	3,330				40	2,230	400	302	10	1,100
Change	(2,150)	(50)	(2,100)				(40)	(1,000)	0	0	(10)	(1,100)
Proposed	<b>1,932</b>	<b>702</b>	<b>1,230</b>				<b>0</b>	<b>1,230</b>	400	302	<b>0</b>	<b>0</b>
<b>Congestion Mitigation and Air Quality (CMAQ) funds</b>												
Existing	367	367								367		
Change	0	0								0		
Proposed	367	367								367		
<b>Total</b>												
Existing	25,449	14,119	11,330				40	18,700	400	3,669	10	2,630
Change	(14,880)	(10,050)	(4,830)				(40)	(12,200)	0	0	(10)	(2,630)
Proposed	<b>10,569</b>	<b>4,069</b>	<b>6,500</b>				<b>0</b>	<b>6,500</b>	400	3,669	<b>0</b>	<b>0</b>

**CONTRACT 3: San Mateo County Smart Corridor project – State (PPNO 2140Q)**

County	District	PPNO	EA	Element	Const. Year	PM Back	PM Ahead	Route/Corridor					
San Mateo	4	2140Q	4A923	CO	2010-11	0.0	19	82					
<b>Implementing Agency: (by component)</b>	<b>PA&amp;ED</b>	C/CAG				<b>PS&amp;E</b>	C/CAG						
	<b>R/W</b>	Department				<b>CON</b>	Department						
<b>RTPA/CTC:</b>	Metropolitan Transportation Commission												
<b>Project Title:</b>	San Mateo County Smart Corridors - State												
<b>Location</b>	Located between US 101 and SR 82 corridor, from Whipple Avenue to I-380 within state right of way limits.												
<b>Description:</b>	Install traffic signal improvements, CCTVs, trailblazer signs, and vehicle detection systems.												
<b>(DOLLARS IN THOUSANDS)</b>													
FUND	TOTAL	Project Totals by Fiscal Year					Project Totals by Component						
		Prior	10/11	11/12	12/13	13/14	14/15	R/W	CON	PA&ED	PS&E	R/W Supp	CON Supp
<b>State Bond - Traffic Light Synchronization Program (TLSP)</b>													
Existing	0		0					0					0
Change	9,000		9,000					8,000					1,000
Proposed	<b>9,000</b>		<b>9,000</b>					<b>8,000</b>					<b>1,000</b>
<b>Regional Improvement Program (RIP)</b>													
Existing	0		0					0					0
Change	2,730		2,730					2,200					530
Proposed	<b>2,730</b>		<b>2,730</b>					<b>2,200</b>					<b>530</b>
<b>Local Funds</b>													
Existing	0		0					0					0
Change	50		50					40					10
Proposed	<b>50</b>		<b>50</b>					<b>40</b>					<b>10</b>
<b>Total</b>													
Existing	0		0					0	0				0
Change	11,780		11,780					40	10,200				10
Proposed	<b>11,780</b>		<b>11,780</b>					<b>40</b>	<b>10,200</b>				<b>10</b>

**CONTRACT 4: San Mateo County Smart Corridor project – Phase 4 (PPNO 2140R)**

County	District	PPNO	EA	Element	Const. Year	PM Back	PM Ahead	Route/Corridor					
San Mateo	4	2140R	4A924	CO	2010-11	0.0	19	82					
<b>Implementing Agency: (by component)</b>	<b>PA&amp;ED</b>					<b>PS&amp;E</b>							
	<b>R/W</b>					<b>CON</b>	C/ CAG						
<b>RTPA/CTC:</b>	Metropolitan Transportation Commission												
<b>Project Title:</b>	San Mateo County Smart Corridors - Phase 4												
<b>Location</b>	Located between US 101 and SR 82 corridor, from Whipple Avenue to I-380.												
<b>Description:</b>	The project scope consists of integration of the traffic signal system and the ITS components like arterial dynamic message signs, vehicle detection systems, fixed and pan-tilt zoom closed-circuit television cameras.												
<b>(DOLLARS IN THOUSANDS)</b>													
FUND	TOTAL	Project Totals by Fiscal Year					Project Totals by Component						
		Prior	10/11	11/12	12/13	13/14	14/15	R/W	CON	PA&ED	PS&E	R/W Supp	CON Supp
<b>Local Funds</b>													
Existing	0		0					0					
Change	1,600		1,600					1,600					
Proposed	<b>1,600</b>		<b>1,600</b>					<b>1,600</b>					
<b>Total</b>													
Existing	0		0					0					
Change	1,600		1,600					1,600					
Proposed	<b>1,600</b>		<b>1,600</b>					<b>1,600</b>					