



# CITY COUNCIL AGENDA REPORT

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MEETING DATE: FEBRUARY 17, 2015

ITEM NUMBER: **CC-14**

**SUBJECT: COOPERATIVE AGREEMENT FOR THE HARBOR BOULEVARD TRAFFIC SIGNAL SYNCHRONIZATION PROJECT**

**DATE: FEBRUARY 5, 2015**

**FROM: PUBLIC SERVICES DEPARTMENT – TRANSPORTATION SERVICES DIVISION**

**PRESENTATION BY: ERNESTO MUNOZ, PUBLIC SERVICES DIRECTOR**

**FOR FURTHER INFORMATION CONTACT: RAJA SETHURAMAN, TRANSPORTATION SERVICES MANAGER, 714-754-5032**

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## **RECOMMENDATIONS:**

1. Approve the Cooperative Agreement between the City of Costa Mesa and the City of Santa Ana for the Harbor Boulevard Traffic Signal Synchronization (TSS) Project (Attachment 1).
2. Authorize the Mayor and City Clerk to execute the above agreement.

## **BACKGROUND:**

The Orange County Transportation Authority's Measure M Program (M2) half-cent sales tax for transportation improvements included money for cooperative traffic signal synchronization across City borders within Orange County. While the City of Costa Mesa maintains a high level of coordination within the City, the Harbor Boulevard TSS project is an inter-jurisdictional effort which includes the City of Garden Grove, City of Fountain Valley, City of Santa Ana, and Caltrans. The City of Santa Ana will administer this TSS project.

A total of 46 intersections on Harbor Boulevard in the City of Garden Grove, City of Fountain Valley, City of Santa Ana, and the City of Costa Mesa will be coordinated with this project.

The scope of work for the TSS project includes:

- Development of Optimized Traffic Signal Synchronization Timing Plans
- Installation of Traffic Signal Upgrades
- Communication Upgrades
- Implementation of Traffic Signal Timing Plans
- Conduct Before and After Studies
- Two Years of Traffic Signal Timing Maintenance

In October 2013, the City of Santa Ana applied for Measure M2 grant funding for engineering and implementation of the improvements on Harbor Boulevard in Garden Grove, Fountain Valley, Santa Ana, and Costa Mesa. The City of Santa Ana was awarded \$1,852,080 in grant funds for the engineering, implementation, and two-year monitoring of the Harbor Boulevard Corridor with a match share requirement of \$463,020 resulting in a total project cost of \$2,315,100. The project is split between the Cities of Garden Grove, Fountain Valley, Costa Mesa, and Santa Ana in proportional amounts per the number of signals in each jurisdiction, and the associated match share is detailed in the cooperative agreement.

## **ANALYSIS:**

The Harbor Boulevard TSS Project will result in a comprehensive review of traffic signal coordination spanning the Cities of Garden Grove, Fountain Valley, Costa Mesa, and Santa Ana. The City of Costa Mesa will have the final approval authority for implementation of any timing plans developed as part of this project within the City's jurisdiction.

The project will result in replacement of outdated traffic signal cabinets at nine (9) intersections and the installation of Closed Circuit Television (CCTV) cameras at (ten) 10 intersections along Harbor Boulevard, in addition to signal communication upgrades. The project will also result in the installation of Emergency Vehicle Preemption (EVP) equipment at 18 locations along Harbor Boulevard. The estimated value of the upgrades in the City of Costa Mesa for the Harbor Boulevard TSS project is \$1,099,025. The TSS project includes the preparation of detailed before and after studies to document efficiencies achieved with any proposed timing changes. The City of Santa Ana has successfully administered similar TSS projects and will be the agency in charge of this project.

The attached Cooperative Agreement defines the terms and conditions for each of the TSS project agencies. The City of Santa Ana will administer, monitor, and audit the TSS project. The Cities of Garden Grove, Fountain Valley, Costa Mesa, and Santa Ana will provide a match share of the project cost for the improvements and will implement the timing plans in their jurisdiction for the Harbor Boulevard TSS Project.

Staff recommends execution of the Cooperative Agreement to enable the implementation of the TSS project along Harbor Boulevard in Costa Mesa.

**ALTERNATIVES CONSIDERED:**

One alternative would be not to approve the Cooperative Agreement. However, this alternative would result in the elimination of Costa Mesa's intersections for consideration of traffic signal synchronization improvements. This would result in the loss of approximately \$1,099,025 in traffic signal equipment and upgrades within the City.

**FISCAL REVIEW:**

If approved, funding for the Harbor Boulevard TSS project is available from the Orange County Transportation Authority's (OCTA) Measure M2 grant of \$1,852,080 towards the design, implementation, and two-year monitoring of the Traffic Signal Synchronization project along the Harbor Boulevard Corridor in the jurisdictions of Garden Grove, Fountain Valley, Santa Ana, and Costa Mesa. The OCTA grant requires a 20% match of \$229,405 by the City. The City appropriated \$179,594 in Air Quality Management District (AQMD) funds in the Fiscal Year 2014-15 Budget for this project. The remaining will be covered by staff time. It is estimated that the Cities of Garden Grove, Santa Ana, and Fountain Valley will contribute approximately \$74,446, \$91,028, and \$5,640 respectively towards the project.

The City of Costa Mesa staff will maintain the traffic signal timing and equipment as part of routine maintenance for the intersections within the City's jurisdiction.

**LEGAL REVIEW:**

The City Attorney's office has reviewed the attached Cooperative Agreement and has approved it as to form.

**CONCLUSION:**

Staff recommends that the City Council approve the attached Cooperative Agreement between the City of Costa Mesa and the City of Santa Ana for the implementation of the Traffic Signal Synchronization Project on the Harbor Boulevard Corridor. Staff also requests the City Council's authorization for the Mayor and City Clerk to execute the agreement.

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**ERNESTO MUNOZ**  
Public Services Director

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**RAJA SETHURAMAN**  
Transportation Services Manager

ATTACHMENT:        1        [Cooperative Agreement for Harbor Boulevard](#)

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