



CITY COUNCIL AGENDA REPORT

MEETING DATE: NOVEMBER 16, 2010

ITEM NUMBER:

SUBJECT: TRAFFIC SIGNAL SYNCHRONIZATION PLAN

DATE: NOVEMBER 4, 2010

FROM: PUBLIC SERVICES DEPARTMENT - TRANSPORTATION SERVICES DIVISION

PRESENTATION BY: PETER NAGHAVI, DIRECTOR, DEPARTMENT OF PUBLIC SERVICES

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

RECOMMENDATION:

Adopt the Resolution (Attachment 1) approving the Traffic Signal Synchronization Plan for the City of Costa Mesa.

BACKGROUND:

The approved guidelines for Renewed Measure M (M2) eligibility requires that local agencies adopt and maintain a local Traffic Signal Synchronization Plan. This plan must be consistent with the Regional Traffic Signal Synchronization Master Plan prepared by the Orange County Transportation Authority (OCTA). The regional Master Plan has identified signal synchronization corridors throughout the County and has documented existing infrastructure and operations. This Master Plan provides the basis for implementing the Regional Traffic Signal Synchronization program using Measure M2 funding.

In order to meet eligibility requirements for the signal synchronization portion of Measure M2, local agencies must submit the following to OCTA prior to December 31, 2010:

- Concurrence and demonstrated support of the Regional Traffic Signal Synchronization Master Plan goals, including:
 1. Corridor-based signal synchronization;
 2. Multi-agency coordination;
 3. Traffic signal timing based on existing traffic patterns; and
 4. Local responsibility of traffic signal timing and operations.
- Local traffic signal synchronization network consistent with the Regional Master Plan and Master Plan of Arterial Highways (MPAH).
- Traffic signal inventory for signal synchronization routes.
- Three-year plan showing costs, funding and phasing for capital, operations and maintenance of traffic signal synchronization corridors.

ANALYSIS:

The OCTA guidelines were reviewed by all agencies' staff and at various committees. These guidelines were incorporated in the Measure M2 ordinance approved by Orange County voters in 2006.

The City's existing traffic signal synchronization network is shown in Attachment 2. The City's network of synchronized arterial streets traffic signals exceeds the network in OCTA's Regional Master Plan for Costa Mesa. The signal synchronization goals adopted by OCTA are consistent with the City's approach, as the City has implemented signal timing based on existing traffic patterns, and coordination along corridors. Several projects undertaken, including the recent Costa Mesa/Santa Ana Signal Coordination project, demonstrate the City's proactive approach towards regional signal coordination.

In accordance with the guidelines, a traffic signal inventory was prepared documenting cycle lengths for various time periods, coordinated signal phases, and type of signal controller for every traffic signal along the City's signal synchronization network.

The City's seven-year Capital Improvement Project (CIP) was used as a basis for providing information on traffic signal projects over the next three years.

The above submittals, along with the approved resolution, will enable the City to meet Measure M2 eligibility guidelines and apply for Regional Traffic Signal Synchronization project grant funding in the upcoming "Call for Projects." Staff requests City Council approval of the attached resolution.

ALTERNATIVES CONSIDERED:

The City Council may choose to not approve the attached Resolution. This alternative would make the City ineligible to receive Measure M2 funds from Orange County Transportation Authority for the Regional Signal Synchronization program.

FISCAL REVIEW:

There is no fiscal impact with this item. The requirements of the program are met by the City based on existing General Plan Circulation Element policies.

LEGAL REVIEW:

The City Attorney's Office has reviewed and approved the Resolution (Attachment 1) as to form.

CONCLUSION:

The voter-approved Measure M2 requires local agencies to meet eligibility requirements for the Regional Traffic Signal Synchronization program by demonstrating compliance with regional signal synchronization goals, maintaining a signal coordination network consistent with the Regional Master Plan, and providing a commitment to continued maintenance of the Traffic Signal Synchronization program. The attached Resolution provides City Council approval of the local Traffic Signal Synchronization Plan that meets OCTA requirements.

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ATTACHMENTS: 1 - [Resolution](#)
2 - [Traffic Signal Synchronization Network](#)