



Legislation Details (With Text)

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Title: Approve and authorize execution of a Cooperative Agreement with Orange County Transportation Authority (OCTA) for Alternative Signal Communication Demonstration Project

Attachments: 1. Att 1 Co-Op Agreement C-3-3058, 2. Att 2 PowerPoint Presentation

Date	Ver.	Action By	Action	Result
3/19/2024	1	City Council/Public Financing Authority	approved	Pass

REQUEST FOR CITY COUNCIL ACTION

SUBMITTED TO: Honorable Mayor and City Council Members

SUBMITTED BY: Eric G. Parra, Interim City Manager

VIA: Chau Vu, Director of Public Works

PREPARED BY: John Nguyen, Senior Traffic Engineer

Subject:

Approve and authorize execution of a Cooperative Agreement with Orange County Transportation Authority (OCTA) for Alternative Signal Communication Demonstration Project

Statement of Issue:

The Orange County Transportation Authority (OCTA) has submitted a cooperative agreement to the City of Huntington Beach to be part of a pilot and demonstration program for identifying, implementing, and evaluating traffic signal timing solutions that are quick to build and low-cost for connecting traffic signal communications back to the traffic management center. This agreement clarifies the roles and responsibilities of OCTA, the County, and participating cities with respect to execution and delivery of the project. The effort is funded by the OCTA Comprehensive Transportation Funding Program with no funding obligation for the City to participate other than in-house resources (staff time) as needed.

Financial Impact:

The Orange County Transportation Authority will be responsible for all project costs. There is no financial impact to the City.

Recommended Action:

Approve and authorize the Mayor and City Clerk to execute “Cooperative Agreement No. C-3-3058 Between Orange County Transportation Authority and Cities of Huntington Beach, La Habra, Lake

Forest, Newport Beach, Rancho Santa Margarita, Seal Beach, and Yorba Linda for Alternative Signal Communication Demonstration Project”.

Alternative Action(s):

Deny approval of the project, and forgo participation in the project.

Analysis:

Orange County Transportation Authority (OCTA) has been implementing and improving traffic signal coordination and communication across multiple jurisdictions under the Measure M2 Regional Traffic Signal Synchronization Program (Project P). Traffic signal communication infrastructure is a major component in synchronization, operations, and Intelligent Transportation Systems (ITS) capabilities.

OCTA is collaborating with the cities of Huntington Beach, La Habra, Lake Forest, Newport Beach, Rancho Santa Margarita, Yorba Linda, and Seal Beach to pilot an Alternative Signal Communication Demonstration Project that will identify traffic signals that are at a disadvantage without underground conduit for fiber optics or copper interconnect and will develop a quick to build low cost traffic signal communication network that will connect back to the city’s traffic management center.

The project will evaluate and implement multiple signal communication solutions at twenty-two (22) traffic signals as part of this project, of which eight (8) are within the City of Huntington Beach:

1. Heil Avenue and Bolsa Chica Street
2. Heil Avenue and Del Mar Lane
3. Heil Avenue and Graham Street
4. Heil Avenue and Springdale Street
5. Heil Avenue and Trudy Lane
6. Heil Avenue and Edward Street
7. Heil Avenue and Goldenwest Street
8. Heil Avenue and Gothard Street

The eight locations currently do not have communication with the City’s Traffic Management Center, which make them ideal candidates for this project. The project will provide new communication equipment solutions that would allow the City to review and modify traffic signal operation as required.

The cooperative agreement describes the duties and responsibilities between OCTA and the City on the project. By entering into the cooperative agreement, the City would be agreeing to support OCTA’s efforts by providing requested existing traffic signal data and plans, committing staff time to review recommended traffic communication plans, and overall participation to implement the project. OCTA will be the lead and implementing agency for the project, and as part of this effort, will be procuring and managing a consultant to collect any traffic equipment necessary and develop network communication parameters. OCTA has secured Congestion Mitigation and Air Quality (CMAQ) funds for the implementation of the project.

There is no funding obligation for the City other than in-house resources (staff time) as needed.

Public Works Commission Action:

None required for this action.

Environmental Status:

No impact with the approval of the agreement. Any California Environmental Quality Act (CEQA) and environmental analysis will be processed by OCTA.

Strategic Plan Goal:

Non Applicable - Administrative Item

Attachment(s):

1. Cooperative Agreement No. C-3-3058 Between Orange County Transportation Authority and Cities of Huntington Beach, La Habra, Lake Forest, Newport Beach, Rancho Santa Margarita, Seal Beach, and Yorba Linda for Alternative Signal Communication Demonstration Project
2. PowerPoint