#### **City of Garden Grove**

#### INTER-DEPARTMENT MEMORANDUM

То:	Matthew J. Fertal	From:	Keith G. Jones
Dept:	City Manager	Dept.:	Public Works
Subject:	RESOLUTION APPROVING THE SUBMITTAL OF THE EUCLID STREET TRAFFIC SIGNAL SYNCHRONIZATION IMPROVEMENT PROJECT TO THE ORANGE COUNTY TRANSPORTATION AUTHORITY FOR FUNDING	Date:	April 26, 2011

#### OBJECTIVE

To adopt a resolution approving the submittal of the Euclid Street Traffic Signal Synchronization Improvement Project to the Orange County Transportation Authority (OCTA) for funding under the competitive Measure 2 Regional Traffic Synchronization Program.

#### BACKGROUND/DISCUSSION

OCTA issued a call for projects through the Regional Traffic Signal Synchronization Program to coordinate traffic signals across jurisdictional boundaries in the county. The City of Fullerton, in coordination with participating cities, identified Euclid Street as a heavily traveled corridor that would benefit from traffic signal coordination.

The proposed project spans approximately 17 miles and includes 66 traffic signals. It would begin at La Habra Boulevard in the City of La Habra and terminate at Ellis Avenue in the City of Fountain Valley (see attached funding application – Exhibit A).

The entire project cost is estimated at \$1,250,000. The project subtotal for the City of Garden Grove is \$185,120. The local match (@20%) is \$37,024.

#### FINANCIAL IMPACT

The City of Garden Grove's financial responsibility towards the project is estimated at 37,024. Measure M2 Local Fair Share funds have been allocated in FY 11/12 to cover this cost.

RESOLUTION APPROVING THE SUBMITTAL OF THE EUCLID STREET TRAFFIC SIGNAL SYNCHRONIZATION IMPROVEMENT PROJECT TO THE ORANGE COUNTY TRANSPORTATION AUTHORITY FOR FUNDING April 26, 2011 Page 2 of 2

#### RECOMMENDATION

It is recommended that the City Council:

• Adopt the attached resolution approving the submittal of the Euclid Street Traffic Signal Synchronization Improvement Project to the Orange County Transportation Authority for funding.

KEITH G. JONES Public Works Director Dan Candelaria, P.E., By: City Traffic Engineer

Attachment 1: Resolution Attachment 2: Exhibit A **Recommended** for Approval

~

Matthew Fertal City Manager

#### **RESOLUTION NO.**

#### A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE APPROVING THE SUBMITTAL OF THE EUCLID STREET IMPROVEMENT PROJECT TO THE ORANGE COUNTY TRANSPORTATION AUTHORITY FOR FUNDING UNDER THE COMPETITIVE MEASURE M2 REGIONAL TRAFFIC SIGNAL SYNCHRONIZATION PROGRAM

WHEREAS, the Measure M2 Regional Traffic Signal Synchronization Program targets over 2,000 signalized intersections across Orange County to maintain traffic signal synchronization, improve traffic flow, and reduce congestion across jurisdictions;

WHEREAS, the City of Garden Grove has been declared by the Orange County Transportation Authority to meet the eligibility requirements to receive revenues as part of Measure M2;

WHEREAS, the City of Garden Grove has a currently adopted Local Signal Synchronization Plan consistent with the Regional Traffic Signal Synchronization Master Plan as a key component of local agencies' boundaries;

WHEREAS, the City of Garden Grove will provide matching funds for each project as required by the Orange County Comprehensive Transportation Funding Programs Procedures Manual;

WHEREAS, the City of Garden Grove will not use Measure M2 funds to supplant Developer Fees or other commitments; and

WHEREAS, the City of Garden Grove desires to implement multi-jurisdictional signal synchronization along Euclid Street.

NOW, THEREFORE, be it resolved that the City Council of the City of Garden Grove hereby approves the submittal of the application attached hereto as Exhibit "A" and requests the Orange County Transportation Authority allocate funds in the amount specified in the City's application to said City from the Regional Traffic Signal Synchronization Program to implement regional signal synchronization along Euclid Street.

Attachment 2

Project P Regional Traffic Signal Synchronization Program Supplemental Application Information

5 ÷.

# **Euclid Street**

Submitted by:

City of Fullerton Don Hoppe Director of Engineering 714 738-6864 donh@ci.fullerton.ca.us

March 18, 2011



### 

**Engineering Department** 

March 17, 2011

Ref.: CTFP application for the Regional Traffic Signal Synchronization Program -Euclid Street

Attn: Mr. Anup Kulkarni Orange County Transportation Authority Section Manager, Regional Modeling and Traffic Operations 550 S. Main Street P.O. Box 14184 Orange, CA 92868

Dear Mr. Kulkarni,

The City of Fullerton, acting as the lead agency, is pleased to submit the application package for the Euclid Street Regional Traffic Signal Synchronization Program. An electronic package was submitted online.

Sincerely

David Langstaff Traffic Engineering Analyst City of Fullerton

Enclosure(s)

THE EDUCATION COMMUNITY

303 West Commonwealth Avenue, Fullerton, California 92832-1775 (714) 738-6845 • Fax (714) 738-3115 • Web Site: www.ci.fullerton.ca.us

# **Project P Regional Traffic Signal Synchronization Program Euclid Street Application Completed Checklist**

DTOOD	Project P Application Checklist	Included
KISSP	Online Application – Submitted through OCFundTracker	Online
1.	Vehicle Miles Traveled	and
2.	Benefit Cost Ratio	Attached
3.	Project Characteristics	
4.	Transportation Significance	
5.	Maintenance of Effort	
6.	Project Scale	
7.	Number of Jurisdictions	
8.	Current Project Readiness	
9.	Funding Over-Match	[
Section	1: Key technical information	
а.	Project limits of the corridor to synchronize	p. 1
b.	Designation of the corridor to synchronize: priority corridor, signal synchronization network corridor, or master plan of arterial highways corridor	p. 1
C.	Project start date and end date, including any commitment to operate signal synchronization beyond the	p.1
	three year grant period	
d.	Signalized intersections that are part of the project	p. 2, 5-6
e.	Traffic Forum members	p. 6
	2: Identify lead agency option	p. 7
	3: Provide a resolution of support from each member of the Traffic Forum/participating local	p. 7-18
	encies	
	4: Preliminary plans for the proposed project	
	plans shall include details about both phases of the project: Primary Implementation and the Ongoing	
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<u>ivia</u>	intenance and Operation. The plan should be organized using the following setup.	
		p. 19-20
	nary Implementation shall include details about the following:	p. 19-20
Prir	<u>mary Implementation</u> shall include details about the following: Developing and implementing optimized signal synchronization timing (required)	p. 19-20
<u>Prir</u> a.	<u>mary Implementation</u> shall include details about the following: Developing and implementing optimized signal synchronization timing (required) Producing a Before-and-After Study for the proposed project (required)	p. 19-20
<u>Prir</u> a. b.	<u>mary Implementation</u> shall include details about the following: Developing and implementing optimized signal synchronization timing (required) Producing a Before-and-After Study for the proposed project (required) Proposed Signal Improvements (optional):	p. 19-20
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<u>Prir</u> a. b. c.	mary Implementation       shall include details about the following:         Developing and implementing optimized signal synchronization timing (required)         Producing a Before-and-After Study for the proposed project (required)         Proposed Signal Improvements (optional):         i.       New or upgraded detection         ii.       New or upgraded communication systems         iii.       Intersection/field system modernization and replacement         iv.       Minor signal operation improvements         v.       Traffic management centers         vi.       Real time traffic actuated operations and demonstration projects	
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Euclid Checklist.doc

## 1. Key Technical Information

The Project P/Regional Traffic Signal Synchronization Program (RTSSP) sponsors projects that develop and maintain corridor-based, multi-jurisdictional signal synchronization along corridors through Orange County.

In response to the 2011 RTSSP Call for Projects, the City of Fullerton is taking the lead in seeking OCTA funding for synchronizing traffic signals on Euclid Street.

#### A. Project Corridor Limits

The City of Fullerton is seeking funding for the synchronization of traffic signals on Euclid Street. The approximate 17 mile project segment will cover 66 traffic signals in the Cities of La Habra, Fullerton, Anaheim, Garden Grove, Santa Ana and Fountain Valley. Caltrans traffic signals at the various freeway interchanges and on Imperial Highway are also included.

Figure 1 shows the proposed project limits and project signals along the Euclid Street corridor.

#### **B.** Project Corridor Designation

Euclid Street is designated by the County as a Priority Corridor in the Regional Traffic Signal Synchronization Master Plan, shown in **Figure 2**. It is likewise classified as a Major/Primary arterial highway in the Orange County Master Plan of Arterial Highways, shown in **Figure 3**.

#### C. Project Start/Project End Date

Project Start Date:	July 1, 2011
Project End Date:	June 30, 2015

All agencies commit to operate signal synchronization beyond the three year grant period for:

0 year	
X 1 year	
2 years	
3 years	
Other	



Figure 1: Euclid Street Corridor Signals



Figure 2: Orange County Regional Traffic Signal Synchronization Master Plan

**Euclid Street Corridor** 

Regional Traffic Signal Synchronization Program Supplemental Application Information



Figure 3: Orange County Master Plan of Arterial Highways

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es <sup>i</sup>

Orange County Transportation Authority

City of Fullerton - Lead Agency

#### **D.** Project Corridor Signalized Intersections

The signalized intersections comprising the Euclid Street corridor are listed in Table 1.

]	Fable 1: Euclid Street Corridor Pr	oject Traffic Signals
	Intersection Name	Jurisdiction
1	Euclid Street at La Habra Blvd	
2	Euclid Street at Lambert Road	La Habra
3	Euclid Street at Las Lomas	
4	Euclid Street at Imperial Highway	Caltrans
5	Euclid Street at Montwood Ave	La Habra
6	Euclid Street at Country Hills Dr	
7	Euclid Street at Lakeview Dr	
8	Euclid Street at Laguna Rd	
9	Euclid Street at Rosecrans Ave	
10	Euclid Street at Bastanchury Rd	
11	Euclid Street at Valencia Mesa Dr	
12	Euclid Street at Hiltcher Pk	
13	Euclid Street at Malvern Ave	Fullerton
14	Euclid Street at Chapman Ave	
15	Euclid Street at Commonwealth Ave	
16	Euclid Street at Valencia Dr	
17	Euclid St at Hill Ave-Southgate Ave	
18	Euclid St at Orangethorpe Ave	
19	Euclid St at Baker Ave	
20	Euclid St at SR-91 WB Ramps	Caltrans
21	Euclid St at SR-91 EB Ramps	Califairs
22	Euclid St at Medical Center Dr	
23	Euclid St at Romneya Dr	
24	Euclid St at La Palma Ave	Anaheim
25	Euclid St at Glenoaks Ave	Ananenn
26	Euclid St at Crescent Ave	
27	Euclid St at Anaheim Plaza	
28	Euclid St at I-5 Ramps	Caltrans
29	Euclid St at Lincoln Ave	
30	Euclid Street at Target	
31	Euclid St at Broadway	
32	Euclid St at Orange Ave	·
33	Euclid St at Crone Ave	Anaheim
34	Euclid St at Ball Rd	
35	Euclid St at Palais Rd	
36	Euclid St at Cerritos Ave	
37	Euclid St at Katella Ave	

ן	Fable 1: Euclid Street Corridor Projec	t Traffic Signals	
	Intersection Name	Jurisdiction	
38	Euclid St at Orangewood Ave		
39	Euclid St at Chapman Ave		
40	Euclid St at Marian Dr		
41	Euclid St at Lampson Ave		
42	Euclid St at Main St-College Ave	Garden Grove	
43	Euclid St at Stanford Ave	Garden Grove	
44	Euclid St at Acacia Pkwy	·	
45	Euclid St at Garden Grove Blvd		
46	Euclid St at Century Blvd		
47	Euclid St at Trask Ave		
48	Trask Ave at SR-22 WB Ramps-Havenwood Dr	Caltrans	
49	Euclid St at SR-22 EB Ramps	Caltrans	
50	Euclid St at Westminster Ave	Garden Grove	
51	Euclid St at Business Center Pkwy-Oakfield Ave		
52	Euclid St at Hazard Ave		
53	Euclid St at 5th St	Santa Ana	
54	Euclid St at Bolsa Ave-1st St		
55	Euclid St at McFadden Ave		
56	Euclid St at Edinger Ave		
57	Euclid St at Heil Ave		
58	Euclid St at Warner Ave		
59	Euclid St at Hospital Campus	Equatoin Valley	
60	Euclid St at Slater Ave	Fountain Valley	
61	Euclid St at Southpark Ave		
62	Euclid St at Talbert Ave		
63	Euclid St at Kalama River Ave		
64	Euclid St at I-405 NB Ramps-Newhope St	Caltrans	
65	Euclid St at Condor Ave	Fountain Valley	
66	Ellis Ave-Euclid St at I-405 SB Ramps	Caltrans	

#### E. Traffic Forum Members

The Euclid Street Traffic Forum members are:

City of La Habra City of Fullerton City of Anaheim City of Garden Grove City of Santa Ana City of Fountain Valley Caltrans

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Euclid Street Corridor

Regional Traffic Signal Synchronization Program Supplemental Application Information

# 2. Lead Agency

The City of Fullerton will be the lead agency.

# 3. Resolution of Support

The Resolutions of Support or Letters of Intent from all participating agencies are provided on the following pages.



# City of La Habra

## PUBLIC WORKS/ENGINEERING

"A Caring Community"

201 E. La Habra Boulevard La Habra, CA 90631 Office: (562) 905-9720 Fax: (562) 905-9643

March 15, 2011

Mr. Don Hoppe Director of Engineering City of Fullerton 303 W. Commonwealth Avenue Fullerton, CA 92832

#### Subject: Letter of Intent for Regional Traffic Signal Synchronization Program Application – Euclid Street

Dear Mr. Hoppe:

The Orange County Transportation Authority issued a call for projects for Regional Traffic Signal Synchronization Program to coordinate traffic signals across jurisdictional boundaries in the county. The City of La Habra in coordination with participating cities identified Euclid Street corridor for Project P application. The signal synchronization on Euclid Street between La Habra Boulevard in the City of La Habra and Ellis Avenue in the City of Fountain Valley will improve the signal coordination along this heavily traveled corridor.

The City of La Habra is in support of City of Fullerton's effort in pursuing Renewed Measure M funds for this project.

The City of La Habra is committed to provide the required matching funds and will be seeking City Council adoption of a resolution on April 18, 2011 in support of implementing and funding this project. We will forward the adopted resolution as soon as it is available.

Sincerely,

Userghe J. Down

Christopher L. Johansen, P.E. City Engineer



OTY OF FULLERTON



**Engineering Department** 

March 16, 2011

Anup Kulkarni Orange County Transportation Authority Section Manager, Regional Modeling and Traffic Operations 550 S. Main Street P.O. Box 14184 Orange, California 92863-1584

#### Subject: Letter of Intent for Regional Traffic Signal Synchronization Program Application

Dear Mr. Kulkarni:

The Orange County Transportation Authority issued a call for projects for Regional Traffic Signal Synchronization Program to coordinate traffic signals across jurisdictional boundaries in the county. The City of Fullerton, in coordination with participating cities, identified the Euclid Street corridor for Project P application. The signal synchronization on Euclid Street, between La Habra Boulevard in the City of La Habra and Ellis Avenue in the city of Fountain Valley, will improve the signal coordination along this heavily traveled corridor.

The City of Fullerton is committed to provide the required matching funds and will be seeking City Council adoption of a resolution on April 19, 2011, in support of implementing and funding this project. We will forward the adopted resolution as soon as it is available.

Sincerely,

out

Yelena Voronel Senior Civil Engineer

THE EDUCATION COMMUNITY



# City of Anaheim **DEPARTMENT OF PUBLIC WORKS**

March 15, 2011

Mr. Don Hoppe City Engineer City of Fullerton 303 West Commonwealth Avenue Fullerton, CA 92832

Subject:

Letter of Intent for Regional Traffic Signal Synchronization Program Application – Euclid Street

Dear Mr. Hoppe:

The Orange County Transportation Authority issued a call for projects for Regional Traffic Signal Synchronization Program to coordinate traffic signals across jurisdictional boundaries in the county. The City of Anaheim in coordination with participating cities identified Euclid Street corridor for Project P application.

The City of Anaheim is in support of City of Fullerton's effort in pursuing Renewed Measure M funds for this project which will improve the signal coordination along this heavily traveled corridor.

The City of Anaheim is committed to provide the required matching funds and will be seeking City Council adoption of a resolution on April 12, 2011 in support of implementing and funding this project. We will forward the adopted resolution as soon as it is available.

Sincerely,

John Thai Principal Traffic Engineer City of Anaheim

200 S. Anaheim Blvd., Suite 276 Anaheim, California 92805 TEL (714) 765-5176 FAX (714) 765-5225

www.anaheim.net



# **CITY OF GARDEN GROVE**

William J. Dalton Mayor

Steven R. Jones Mayor Pro Tem

Dina Nguyen Council Member

Bruce A. Broadwater Council Member

Andrew Do Council Member

March 15, 2011

Don Hoppe Director of Engineering City of Fullerton 303 W. Commonwealth Avenue Fullerton, CA 92832

Subject: Letter of Intent for Regional Traffic Signal Synchronization Program Application – Euclid Street

Dear Mr. Hoppe:

The Orange County Transportation Authority issued a call for projects for Regional Traffic Signal Synchronization Program to coordinate traffic signals across jurisdictional boundaries in the county. The City of Garden Grove in coordination with participating cities identified Euclid Street corridor for Project P application. The signal synchronization on Euclid Street between La Habra Boulevard in the City of La Habra and Ellis Avenue in the City of Fountain Valley will improve the signal coordination along this heavily traveled corridor.

The City of Garden Grove is in support of City of Fullerton's effort in pursuing Renewed Measure M funds for this project.

The City of Garden Grove is committed to provide the required matching funds and will be seeking City Council adoption of a resolution on April 26, 2011 in support of implementing and funding this project. We will forward the adopted resolution as soon as it is available.

Sincere Dan Candelaria, P.E., T.E.

City Traffic Engineer City of Garden Grove MAYOR Miguel A. Pulido MAYOR PRO TEM Claudia C. Alvarez COUNCILMEMBERS P. David Benavides Carlos Bustamante Michele Martinez Vincent F. Sarmiento Sal Tinajero



CITY MANAGER David N. Ream CITY ATTORNEY Joseph Straka CLERK OF THE COUNCIL Maria D. Huizar

#### CITY OF SANTA ANA CLERK OF THE COUNCIL OFFICE M-30 P.O. Box 1988 Santa Ana, California 92702

anta Ana, California 927(

#### MINUTES EXCERPT

**MEETING DATE:** 

March 7, 2011

COUNCIL MEMBERS PRESENT: Alvarez, Benavides Bustamante, Martinez, Sarmiento, Tinajero, Pulido (7)

ABSENT: None (0)

### CONSENT CALENDAR

55C

SUBMISSION OF GRANT APPLICATIONS FOR MEASURE M COMPREHENSIVE TRANSPORTATION FUNDING PROGRAM - Public Works Agency

MOTION: Adopt a resolution.

RESOLUTION NO. 2011-009 - A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SANTA ANA APPROVING THE SUBMITTAL OF IMPROVEMENT PROJECTS TO THE ORANGE COUNTY TRANSPORTATION AUTHORITY FOR FUNDING UNDER THE COMPREHENSIVE TRANSPORTATION PROGRAM

MOTION:	Alvarez	SECOND:	Benavides

VOTE: AYES: Alvarez, Benavides, Bustamante, Martinez, Pulido, Sarmiento, Tinajero (7)

NOES: None (0)

- ABSTAIN: None (0)
- ABSENT: None (0)

#### STATE OF CALIFORNIA COUNTY OF ORANGE

I, MARIA D. HUIZAR, Clerk of the Council, of the City of Santa Ana, California, hereby certify the foregoing to be a full, true and correct copy of the minute action on record in this office.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 14th day of March, 2011.

Wana D Maria D. Huizar'

Clerk of the Council

#### RESOLUTION NO. 2011-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SANTA ANA APPROVING THE SUBMITTAL OF IMPROVEMENT PROJECTS TO THE ORANGE COUNTY TRANSPORTATION AUTHORITY FOR FUNDING UNDER THE COMPETITIVE MEASURE M2 REGIONAL TRAFFIC SYNCHRONIZATION PROGRAM

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SANTA ANA AS FOLLOWS:

<u>Section 1</u>: The City Council of the City of Santa Ana hereby finds, determines and declares as follows:

- A. The Measure M2 Regional Traffic Synchronization Program targets over 2000 signalized intersections across Orange County to maintain traffic signal synchronization, improve traffic flow and reduce congestion across jurisdictions.
- B. The City of Santa Ana has been declared by the Orange County Transportation Authority to meet the eligibility requirements to receive revenues as part of Measure M2.
- C. The City of Santa Ana has a currently adopted a Local Signal Synchronization Plan consistent with the Regional Traffic Signal Synchronization Master Plan as a key component of local agencies' effort to synchronized traffic signals across local agencies' boundary.
- D. The City of Santa Ana will provide matching funds for each project as required by the Comprehensive Transportation Funding Program Procedures Manual; and
- E. The City of Santa Ana will not use Measure M2 funds to supplant Developer Fees or other commitments; and
- F. The City of Santa Ana desires to implement multi-jurisdictional listed below.

SECTION 2: The Executive Director of the Public Works Agency is authorized to submit projects for funding consideration under the Combined Transportation Funding Programs.

SECTION 3: The City Council of the City of Santa Ana hereby requests the Orange County Transportation Authority allocate funds in the amounts specified in the City's application to said City from the Regional Traffic Synchronization Program. Said funds shall be matched by funds from said City as required and shall be used as supplemental funding to aid the City in the implementation the following projects:

PROJECTS	FY
Warner Ave from Pacific Coast Hwy to Red Hill Ave	11/12
Tustin Ave from 1 <sup>st</sup> St to Imperial Hwy	11/12
Euclid Ave from 405 Fwy to Imperial Hwy	11/12
Fairview from SR 55 to SR 22	11/12
MacArthur Blvd from Beach Blvd to SR 55	11/12

SECTION 4: This Resolution shall take effect immediately upon its adoption by the City Council, and the Clerk of the Council shall attest to and certify the vote adopting this Resolution.

ADOPTED this \_\_\_\_ day of \_\_\_\_\_ 2011.

Miguel A. Pulido Mayor

APPROVED AS TO FORM: Joseph W. Fletcher, City Attorney

Ву: \_\_\_\_\_

Laura Sheedy Assistant City Attorney

AYES:	Councilmembers
NOES:	Councilmembers
ABSTAIN:	Councilmembers
NOT PRESENT:	Councilmembers

#### **CERTIFICATE OF ORIGINALITY**

I, Maria D. Huizar, Clerk of the Council, do hereby certify the attached Resolution No. \_\_\_\_\_\_\_to be the original resolution adopted by the City Council of the City of Santa Ana on \_\_\_\_\_\_, 2011.

Date:

Clerk of the Council City of Santa Ana

# RESOLUTION NO. \_\_\_\_\_

A RESOLUTION OF THE FOUNTAIN VALLEY CITY COUNCIL APPROVING THE SUBMITTAL OF WARNER AVENUE, TALBERT AVENUE/MACARTHUR BOULEVARD, AND EUCLID STREET IMPROVEMENT PROJECTS TO THE ORANGE COUNTY TRANSPORTATION AUTHORITY FOR FUNDING UNDER THE COMPETITIVE MEASURE M2 REGIONAL TRANSPORTATION SIGNAL SYNCHRONIZATION PROGRAM

WHEREAS, the Measure M2 Regional Traffic Signal Synchronization Program targets over 2000 signalized intersections across Orange County to maintain traffic signal synchronization, improve traffic flow, and reduce congestion across jurisdictions; and

WHEREAS, the City of Fountain Valley has been declared by the Orange County Transportation Authority to meet the eligibility requirements to receive revenues as part of Measure M2; and

WHEREAS, the City of Fountain Valley has a currently adopted Local Signal Synchronization Plan consistent with the Regional Traffic Signal Synchronization Master Plan as a key component of local agencies' efforts to synchronizing traffic signals across local agencies' boundaries; and

WHEREAS, the City of Fountain Valley will provide matching funds for each project as required by the Orange County Comprehensive Transportation Funding Programs Procedures Manual; and

WHEREAS, the City of Fountain Valley will not use Measure M funds to supplant Developer Fees or other commitments; and

WHEREAS, the City of Fountain Valley desires to implement multijurisdictional signal synchronization listed below;

NOW, THEREFORE, BE IT RESOLVED the City Council of the City of Fountain Valley hereby requests the Orange County Transportation Authority allocate funds in the amounts specified in the City's application to said City from the Regional Transportation Signal Synchronization Program to implement regional signal synchronization along the following street(s): Warner Avenue, Talbert Avenue/MacArthur Boulevard, and Euclid Street. **PASSED, APPROVED, AND ADOPTED** at a regular meeting of the City Council of the City of Fountain Valley this  $1^{st}$  day of <u>March</u>, 2011.

Nagel Mayor Steve Nagel

ATTEST: City Clerk, Pat Healy

Approve/as to form:

City Attorney, Alan R. Burns

#### VOTE

STATE OF CALIFORNIA)COUNTY OF ORANGE)ss.CITY OF FOUNTAIN VALLEY)

I, Kathleen Heard, Deputy City Clerk of the City of Fountain Valley, do hereby certify that the foregoing Resolution was adopted at the Council meeting held on the <u>1st day of March 2011</u>, by the following vote, to wit:

AYES:NAGEL, CRANDALL, COLLINS, MCCURDY, VOABSENT:NONENOES:NONE

Kathleen Heard, Deputy City Clerk

# 4. Preliminary Project Plans

#### **Primary Implementation**

#### A. Development and Implementation of Optimized Signal Synchronization Timing

The City of Fullerton will lead the project to optimize signal synchronization timing along the Euclid Street corridor. The City of Fullerton will work cooperatively with all other traffic forum members to improve traffic flow. Synchronization will be inter-jurisdictional in nature. All existing traffic patterns, flows and conditions will be taken into account. Synchronized timing will be developed for the AM Peak, Midday Peak, PM Peak and Weekend Peak periods. Cross street traffic will be considered as part of the project.

#### **B.** Before and After Study Analysis

The Project Team will develop a "Before" and "After" study analysis for the Euclid Street Corridor. The "before" study shall collect travel time and delay data for peak periods. Measures of Effectiveness (MOE) parameters, which provide a quantitative basis for determining traffic signal coordination benefits, will include stops, delays, travel times, average speeds and fuel consumption. MOE's will be compiled via field measurements using the floating-car technique.

The "after" study will be conducted similar to the "before" study using data gathered after the implementation of the optimized timing. The same MOE parameters will be compiled and later compared to determine the improvements in efficiency of traffic flow resulting from the multi-jurisdictional traffic signal coordination.

Also to be included in the "before" and "after" analysis is the Corridor Synchronization Performance Index (CSPI) comparison. The CSPI index is based on the average speed, number of greens per red and the number of stops per mile.

#### C. Proposed Signal Timing Related System Improvements

#### City of La Habra:

The City of La Habra will be receiving a CCTV camera. Fiber will also be installed in existing conduits to connect to Harbor/Lambert (which connects to the City's TMC). Controller software upgrades are also planned.

#### <u>City of Fullerton:</u>

The City of Fullerton will be receiving new controllers along Euclid Street. A new cabinet with foundation as well as one controller software upgrade are proposed. The City will also get a CCTV camera, wireless radios, Ethernet communications upgrades and video detection upgrade.

#### City of Anaheim:

The City of Anaheim will be receiving new 2070 controllers at 10 locations. Over 7500 feet of fiber will be installed using existing conduits between Medical Center Drive and Lincoln Avenue. Ethernet switches will be provided at 11 locations.

#### City of Garden Grove:

The City of Garden Grove will be receiving new ASC/3 controllers, Ethernet switches and interconnect termination units at 4 locations.

#### City of Santa Ana:

The City of Santa Ana will be installing fiber optic cable in existing conduits between McFadden Ave and Hazard Ave (approximately 5700 feet) to bring back communications to City TMC. Several Ethernet switches to enable Ethernet communications to the TMC are also proposed.

#### City of Fountain Valley:

The City of Fountain Valley will be installing fiber in new conduit between Kalama River and Condor traffic signals.

#### Caltrans:

Caltrans will be receiving new 2070 controllers at the freeway ramp traffic signals along Euclid Street.

Specific improvements in each agency are identified in Table 2.

#### **Ongoing Maintenance and Operation**

Ongoing maintenance and operation will last for a period of three years after the initial year and will consist of (A) monitoring and improving optimized signal timing, and (B) communications and detection support. Descriptions of both are provided below:

#### A. Monitoring and Improvement of Optimized Signal Timing

The Euclid Street corridor will be driven periodically during peak hours and non-peak hours to monitor and improve traffic signal synchronization timings and parameters. Improvements and corrections will be implemented as necessary. These reviews will begin upon the completion of the primary implementation and will continue for three years.

#### **B.** Communications and Detection Support Timing

Communication between a central system and signals will be monitored, maintained and repaired as necessary along the corridor across all agencies to ensure necessary conditions for signal synchronization. In addition, detection will be maintained well for a period of three years after signal timing is implemented with consultant help. The project will use a variety of methods to monitor, maintain and repair both communications and detections along the synchronized corridor as shown in Figure 1 and the intersections as identified in Table 1 to ensure the necessary conditions for signal synchronization. A number of tools will be used including monthly drives along the corridor, analysis of central system report output and discussions with respective agency staff.

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# 5. Funding Needs/Costs

#### **Primary Implementation**

#### A. Development and Implementation of Optimized Signal Synchronization Timing

**Estimated Cost:** <u>\$330,000.00</u>

#### **B.** Before and After Study Analysis

Estimated Cost: Included in Task A

#### C. Proposed Signal Timing Related System Improvements

**Estimated Cost:** <u>\$658,640.00</u>

#### **Ongoing Maintenance and Operation**

#### A. Monitoring and Improvement of Optimized Signal Timing

Estimated Cost: <u>\$190,080.00</u>

#### **B.** Communications and Detection Support Timing

**Estimated Cost:** <u>\$71,280.00</u>

Total Estimated Cost: \$261,360.00

Additional details relative to project cost components are provided in Table 2.

Page 1 of 7

Table 2: Euclid Street Corridor Project Cost Summary

Date: <u>March 16, 2011</u>

	-					Projec	Project Cost			
Project Lomponent	City of Fullerton	rton	City of La Habra	Habra	City of Anaheim	City of Gar	City of Garden Grove	City of Santa Ana	City of Fountain Valley	Total Cost
Cost Breakdown										
Signal Timing Component (1st Year)	\$ 70	70,000.00	Ś	30,000.00	\$ 85,000.00	\$ 0	65,000.00 \$	25,000.00	\$ 55,000.00	\$ 330,000.00
Signal Support Component (2nd, 3rd & 4th Yr)	\$ 55	55,440.00	s	23,760.00	\$ 67,320.00	\$ 0	51,480.00 \$	19,800.00	\$ 43,560.00	S 261,360.00
Construction Cost	\$ 114	114,000.00	s	62,000.00	\$ 115,760.00	\$	48,000.00 \$	71,800.00	\$ 36,000.00	\$ 447,560.00
Contingency (10%)	\$ 11	11,400.00	\$	6,200.00	\$ 11,576.00	\$ 0	4,800.00 \$	7,180.00	\$ 3,600.00	S 44,756:00
Construction Eng/Design (15%)	\$ 18	18,810.00	*	10,230.00	\$ 19,100.40	\$ 0	7,920.00 \$	11,847.00	\$ 5,940.00	\$ 73,847.40
Construction Mgmt & Inspection (15%)	\$ 18	18,810.00	\$	10,230.00	\$ 19,100.40	\$ 0	7,920.00 \$	11,847.00	\$ 5,940.00	\$ 73,847,40
Contract Administration (by Lead Agency)	\$ 18	18,630.00								\$ 18,630.00
	\$ 307	307,090.00	\$	142,420.00	\$ 317,856.80	\$ 0	185,120.00 \$	147,474.00	\$ 150,040.00	\$ 1,250,000 80
Project Lost (Per Agency)	SAY \$ 307	307,090.00 SAY	\$	142,420.00 SAY	SAY \$ 317,855.00 SAY	0 SAY\$	185,120.00 SAY	VY \$ 147,475.00 SAY	SAY \$ 150,040.00 SAY	SAY \$ 1,250,000.00
Funding Request										
OCTA Requested Grant Funds (80%)										\$ 1,000,000.00
Agency Match (20%)	\$ 61	61,418.00	\$	28,484.00	\$ 63,571.00	0 \$	37,024.00 \$	29,495.00	\$ 30,008.00	\$ 250,000.00
								Euclid Str	Euclid Street Corridor Grand Total: S	: \$ 1,250,000.00

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Euclid Street Corridor

# 6. Project Schedule by Task

Estimated Project Start Date:	July 1, 2011
Estimated Project End Date:	June 30, 2015

### **Primary Implementation**

A. Development and Implementation of Optimized Signal Synchronization Timing

Estimated Start Date:	<u>July 1, 2011</u>
Estimated End Date:	June 30, 2012

**B.** Before and After Study Analysis

Estimated Start Date:	<u>July 1, 2011</u>
Estimated End Date:	June 30, 2012

#### C. Proposed Signal Timing Related System Improvements

Estimated Start Date:	<u>July 1, 2011</u>
Estimated End Date:	<u>June 30, 2012</u>

#### **Ongoing Maintenance and Operation**

A. Monitoring and Improvement of Optimized Signal Timing

<b>Estimated Start Date:</b>	<u>July 1, 2012</u>
Estimated End Date:	<u>June 30, 2015</u>

#### **B.** Communications and Detection Support Timing

Estimated Start Date:	<u>July 1, 2012</u>
Estimated End Date:	June 30, 2015

# 7. Matching Funds

Total Match Amount	\$250,000.00
In-kind Match Amount	Local match will be a combination
Hard Dollar Match Amount	of in-kind and hard dollars
Total Match Ratio (To Total Project Cost)	0.20

Description of in-kind match:

Contract Administration and Project Management; Construction Management and Inspection; Traffic Forum Meetings.

Description of hard dollar match (if any):

Portion of engineering and construction will come from General Fund.

# 8. Environmental Clearances and Other Permits

This project is Categorically Exempt.

#### 9. Selection Criteria Calculations

See Table 3 and Table 4.

Agency	Segment	ADT	Segment Length	VMT
La Habra	La Habra Bl to Lambert Rd	14,000	0.50	7,000
			0.50	
(2009 OCTA)	Lambert Rd to Imperial Hwy	16,000		8,00
Fullerton	Imperial Hwy to Rosecrans Ave	21,000	1.93	40,53
(2009 OCTA)	Rosecrans Ave to Valencia Mesa	31,700	0.53	16,80
	Valencia Mesa to Malvern Ave	27,600	0.78	21,52
	Malvern Ave to Commonwealth	34,500	0.33	11,38
	Commonwealth to Orangethorpe Ave	38,300	0.75	28,72
	Orangethorpe Ave to SR-91 WB Ramps	47,600	0.31	14,75
Anaheim	SR-91 WB ramp to SR-91 EB ramps	47,100	0.09	4,28
	SR-91 EB ramps to Romneya Dr	45,600	0.19	8,80
	Romneya Dr to Glenoaks Ave	46,000	0.53	24,52
	Glenoaks Ave to Anaheim Plaza	45,700	0.32	14,75
	Anaheim Plaza to I-5 ramps	44,200	0.12	5,39
	I-5 ramps to Target	41,000	0.40	16,30
	Target to Orange Ave	37,200	0.38	14,02
	Orange Ave to Ball Rd	35,000	0.51	17,76
2009 OCTA)	Ball Rd to Katella Ave	33,000	1.02	33,66
Garden Grove	Katella Ave to Chapman Ave	30,000	1.00	30,00
(2009 OCTA)	Chapman Ave to Lampson Ave	36,000	0.50	18,00
	Lampson Ave to Garden Grove Blvd	33,000	0.56	18,48
	Garden Grove Blvd to Trask Ave	38,000	0.50	19,00
	Trask Ave to Westminster Blvd	47,000	0.51	23,97
	Westminster Blvd to Hazard St	48,000	0.50	24,00
Santa Ana	Hazard St to Bolsa Ave/1st St	48,000	0.50	24,00
(2009 OCTA)	Bolsa Ave/1st St to McFadden Ave	37,000	0.47	17,39
r	McFadden Ave to Edinger Ave	37,000	0.50	18,50
ountain Valley	Edinger Ave to Heil Ave	36,000	0.50	18,00
2009 OCTA)	Heil Ave to Warner Ave	35,000	0.50	17,50
	Warner Ave to Slater Ave	29,000	0.50	14,50
	Slater Ave to Talbert Ave	27,000	0.50	13,50
	Talbert Ave to Ellis Ave	30,000	0.60	18,00

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TOTAL VMT:

563,090

# **Table 4: Selection Criteria Calculations**

Corridor: Euclid Street		
Vehicle Miles Traveled (VMT) - 20 points max VMT: 56	3,090	20
250,000 or above 1		20
		0
150,000 to 199,000	10	o
100,000 to 149,000	6	ŏ
50,000 to 99,000	3	ō
49,000 or below		ő
	Points Earned:	20
Benefit Cost Ratio - 15 points max		1
Total Project Cost: \$ 1,250,0	00.00	
VMT/Project Cost : 0.45		
0.81 or above	15	0
0.71 to 0.80	12	0
0.61 to 0.70		0
0.51 to 0.60	4	0
0.41 to 0.50 1	1	1
0.40 or below		0
	Points Earned:	1
Project Characteristics - 10 points max		10
Sinual Constitution 1	r	-
Signal Coordination 1 Communication & Detection Support 1	5 3	5
Tate (Top and Material Information		3 0
TMC/TOC and Motorist Information	4	0
New or upgraded Communications System 1	1	1
New or Upgraded Detection 1	1	1
Intersection/field system modernization		
and replacement	/ 1	0
Minor signal operational Improvements	× 1	0
. Real-Time Traffic Actuated Operations and		
Demo Project	1	0
	Points Earned:	10
Fransportation Significance - 10 points max		10
Corridor Type		·
Priority Corridor 1	10	10
Signal Synchronization Network	10	10
	Points Earned:	10
Maintenance of Effort - 5 points max		. 3
Commitment to Operate Signal Synchronization		
б years or more	5	0
4 to S years1	3	3
3 years	0	0
	Points Earned:	3

Total Criteria Points:	77		
Project Scale - 10 points max			8
No of signals:		10.010.010.000	, , , , , , , , , , , , , , , , , , ,
Length of Corridor:			
Signals being retimed/mile:	3.9		
	3.3		
5 or above		5	0
4.0 to 4.9		4	0
3.0 to 3.9	1	3	3
2.0 to 2.9		2	0
1.9 or below		1	0
	Points	Earned:	3
AND			
Percent of Corridor Signals Being	Retimed		
90% or above	1	5	5
80% to 89%		4	0
70% to 79%		3	0
50% to 69%		2	0
50% to 59%		1	0
••••••••••••••••••••••••••••••••••••••		Earned:	5
Number of Jurisdictions - 20 points max		Series Same	20
	duffin (Fri antida)	200491840	÷*
Total Number of Involved Jurisdic	ctions		
6 or above	1	20	20
4		16	0
э Т		12	o
2_		8	o
	Points	Earned:	20
OR			
% of Priority Corridor Jurisdiction	Involved		
ì			
100%	1	20	20
75% to 99%	·····	12	0
50% to 75%		6	0
		Earned:	20
Current Project Readiness - 5 points max			5
awyonena a oleekine oonteaa taa kontoa maayaar		570100000	. 3
Estimated Project Start			
Within 12 months	1	5	5
Within 24 months		3	0
Within 36 months		1	0
	Points	Earned:	5
Funding Over-Match - 5 points max		ni in the second se	Ö
Funding Over-Match			
50% or above		5	0
40% to 49%		4	ō
35% to 39%		3	ō
		2	ő
25% to 29%		1	ŏ
2010 10 10 10 10	Points	Earned:	ŏ

# **10.** Additional Information or Documentation

# **Project Summary**



All guidelines were met for this project.

Not all qualifications were met.

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IAIN	MENU CHANGE PASSWORD   LOGOUT   OCTA   SCA
K	CTA Orange County Transportation Authority
VIE	W PREVIOUS VERSIONS OF THIS PROJECT LATEST VERSION PDF PROJECT SUMMARY (XLS) UPLOAD PROJECT DOCUMENTS
A Pi	PPLICATION NUMBER:         CTFP TOTAL ALLOCATIONS:         \$1,000,000.00         TOTAL PROJECT COST         \$1,250,000.00           ROJECT ID:         CP2977         CTFP TOTAL PAYMENTS:         \$0.00         ACTUAL MATCH RATE         0.00           ERSION:         1         STATUS;         Planned         1
-	LAST MODIFIED BY: David Langstaff (3/17/2011) APPROVED BY: N/A HISTORY
F	
	PROJECT INFORMATION
	IMPROVEMENT TYPE       IMPLEMENTING AGENCY         TSSP - Traffic Signal Syncronization Program       Fullerton, City of Fullert
	PROJECT TITLE
	Euclid Street Corridor Traffic Signal Synchronization Project           PROJECT DESCRIPTION - GUIDELINES
	synchronization timing for 66 traffic signals along the approximate 16.8 miles of the Euclid Avenue corridor from La Habra Boulevard in La Habra to Ellis Avenue in Fountain Valley. The project involves the cities of La Habra, Fullerton, Anaheim, Garden Grove, Santa Ana and Fountain Valley. Caltrans will also be involved at all State Highway and or freeway locations. Before and after analysis will be conducted. Signal improvements including engineering design and construction management will provide new or upgraded video detection, upgraded fiber optic communications and/or equipment to provide Ethernet over copper communications, replacement of traffic signal controllers and/or upgraded software in existing controllers and CCTV installation. Ongoing maintenance and operation will provide continued support for monitoring and fine-tuning optimized traffic signal timing and maintaining communication and critical detection.
	SYSTEM         ROUTE         INTERSECTION         LOCAL STREET NAME         FROM         TO           Local Street         NO         Euclid Street         La Habra Blvd (Le Ellis Ave (Fountain))
	GENERAL QUESTIONS
	CTFP QUESTIONS         Is this application on your current approved measure M2 CIP?         YES         Has your agency previously received CTFP funding for this Application?         NO         If Yes, When?         Project ID?         Is this on agency's LOCAL SYNCHRONIZATION PLAN?         YES         ** TSSP PROGRAM RULES:
	** If Project is TSSP Program, it should be 20% MINIMUM Match ** Traffic Sync Program (TSSP) - Primary Implementation can only be programmed in ENG Phase. ** Traffic Sync Program (TSSP) - Maintainence & Monitoring can only be programmed in CON Phase. ** TSSP Program can not be programmed in ROW Phase.
	PROGRAMMING INFORMATION (\$0) [HISTORICAL REVENUES] [GRAPH REVENUES]
	Please enter all funding required for the total project for all years. Note: This 2010 Call for Projects will allocate M2 funds for FY11/12,FY12/13,FY13/14 only.         **Minimum match for local funds is 20%**       ** Actual Local Agency Match Rate is 20% **         FISCAL YEAR       FUND TYPE (PROGRAMMED REVENUE SOURCE)       ENG       ROW       CON       TOTAL

11/12 🛞	General Fund				\$195,040.00	\$0.00	\$0.00	\$195,040	
11/12		Program (TSSP)	) - Primary Impien		\$780,160.00	\$0.00	\$0.00	\$780,160	
12/13	Traffic Signal Sync F				\$0.00	\$0.00	\$73,280.00	\$73,280	
12/13	General Fund	(togitain (tool)		Si Montoling	\$0.00	\$0.00	\$18,320.00	\$18,320	
13/14	P				\$0.00	\$0,00	\$18,320.00	\$18,320	
13/14	Traffic Signal Sync F	Zrogram (TSSD)	- Maintainanca A		\$0.00	\$0.00	\$73,280.00	\$73,280	
14/15	General Fund	Togram (1007)	/ - MIGHIGANO (000 C	x woratoring	\$0.00	\$0.00	\$18,320.00	\$18,320	
14/15	Traffic Signal Sync F		Maintainanan S		\$0.00	\$0.00	\$73,280.00	\$73,280	
	· · · · · · · · · · · · · · · · · · ·	-Tugram (155F)	) - Mantamence c		<u></u>	<u>\$0,00</u>	\$73,200.00		,
						[]	[]	\$0	-
		·····			·	LJ		\$0	
	·				[]	· []		\$0	~
					L	lJ		\$0	
	J				L	]	l	\$0	_
	×			General Fund		\$0	\$54,960	\$250,000	2
			1m (TCCC) Drima	a implementation	1 A700 400	1 #^^	40	0700 400	
				ry Implementation	1	\$0	\$219 840	\$780,160	-
Toll Fund Cred i		al Sync Program	am (TSSP) - Prima (TSSP) - Maintaine			\$0) \$0	\$0 \$219,840	\$780,160 \$219,840	-
Toll Fund Cred	Traffic Signa	al Sync Program D TOTAL	(TSSP) - Mainlaine		\$0			f	5
······	Traffic Signa is not part of the GRANE	al Sync Program D TOTAL	(TSSP) - Mainlaine	ence & Monitoring	\$0	\$0	\$219,840	\$219,840	5
······	Traffic Signa is not part of the GRANE	al Sync Program D TOTAL	(TSSP) - Maintaine	ence & Monitoring	\$0	\$0	\$219,840	\$219,840	5
······	Traffic Signa is not part of the GRAND SUPPLESSIBILITIES INFORMATION SCHEDULEI MONTH YE	al Sync Program D TOTAL	(TSSP) - Maintaine SCHEDULED C	ence & Monitoring	\$0	\$0	\$219,840	\$219,840	5
SCHEDULE	Traffic Signa is not part of the GRAND SUPPLIC SUPPLIES INFORMATION SCHEDULE	al Sync Program D TOTAL D START	(TSSP) - Maintaine SCHEDULED C	ence & Monitoring GRAND TOTAL	\$0 \$975,200 <u>\$14TUS</u>	\$0	\$219,840	\$219,840	5
SCHEDULE	Traffic Signa is not part of the GRANE SUPPACESTROMALS INFORMATION SCHEDULE MONTH YE PLAN	Al Sync Program D TOTAL D START EAB	(TSSP) - Maintaine SCHEDULED ( MONTH YE	ence & Monitoring GRAND TOTAL	\$0 \$975,200 <u>\$1ATUS</u>	\$0 \$0	\$219,840	\$219,840	5
SCHEDULE	Traffic Signa is not part of the GRANE SCHEDULE MONTH YE PLAN	Al Sync Program D TOTAL D START EAR	(TSSP) - Maintaine SCHEDULED C MONTH YE	GRAND TOTAL	\$0 \$975,200 <u>\$1ATUS</u>	\$0  \$0	\$219,840	\$219,840	5
SCHEDULE	Traffic Signa is not part of the GRAND INFORMATION SCHEDULET MONTH YE PLAN ENG JUL 22 ROW	al Sync Program D TOTAL D START EAR 2011	(TSSP) - Maintaine SCHEDULED C MONTH YE JUN 2 JUN 2 2	CMPLETION CAR 2012	\$0 \$975,200 \$TATUS	\$0 \$0	\$219,840	\$219,840	5
SCHEDULE	Traffic Signa is not part of the GRAND SUPPLIES SUPPLIES INFORMATION SCHEDULET MONTH YE PLAN ENG JUL 2 ROW	al Sync Program D TOTAL D START EAB 2011	(TSSP) - Maintaine SCHEDULED C MONTH YE JUN 2 JUN 22	OMPLETION AB COLL COLL COLL COLL COLL COLL COLL COLL	\$0 \$975,200 \$TATUS	\$0 \$0 \$0	\$219,840	\$219,840	5
SCHEDULE	Traffic Signa is not part of the GRAND SUPPLIES SUPPLIES INFORMATION SCHEDULET MONTH YE PLAN ENG JUL 2 ROW	al Sync Program D TOTAL D START EAB 2011	(TSSP) - Maintaine SCHEDULED C MONTH YE JUN 2 JUN 2 JUN 2 2	OMPLETION AB COLL COLL COLL COLL COLL COLL COLL COLL	\$0 \$975,200 \$TATUS	\$0 \$0 \$0	\$219,840	\$219,840	5
SCHEDULE	Traffic Signa is not part of the GRAND INFORMATION SCHEDULE MONTH YE PLAN ENG JUL 2 ROW CON JUL 2	al Sync Program D TOTAL D START EAB 2011	(TSSP) - Maintaine SCHEDULED C MONTH YE JUN 2 JUN 2 JUN 2 2	OMPLETION AR 2012 2 2015 2 ELL CHECK	\$0 \$975,200 \$TATUS	\$0 \$0	\$219,840	\$219,840	5
SCHEDULE	Traffic Signa is not part of the GRAND INFORMATION SCHEDULE MONTH YI PLAN ENG JUL 2 ROW CON JUL 2	al Sync Program D TOTAL D START EAB 2011	(TSSP) - Maintaine SCHEDULED C MONTH YE JUN 2 JUN 2 SCORINGED/	OMPLETION AR 2012 2 2015 2 ELL CHECK	\$0 \$975,200 \$TATUS \$TATUS		\$219,840	\$219,840	5

IMENU	CHANGE PASSWORD   LO	GOUT   OCTA
CTA - Orange County Transportation Authority		
ROJECT RANKING		
<u> TSSP - Traffic Signal Synchor</u>	onization Program	
Facility Usage	· ·	
		POINT(S
Vehicle Miles Traveled (VMT)	56309	2 2
Benefit Cost Ratio		
Jurisdictions		POINT(S
Percent of Priority Corridor Jurisdictions Involved	100	2
Total Number of Involved Jurisdictions	7	2
luviediations Costs (higher affins another)		
Jurisdictions Score (higher of two scores above)	· · ·	2
Project Scale		POINT(S
Percent of Corridor Signals Being Retimed	100	
Signal Being Retimed perMile	3.9	
Project Scale (Total)	:	
Project Details	· · · · · · · · · · · · · · · · · · ·	******
		POINT(S
	New or upgra communication systems	
	Minor signal operatio	
	improvements	
	Int./field syst modernization	
	replacement	
	Real-time traffic actua	
Project Characteristics	ops. and demo. projects	
	New or upgraded detec	tion I
	TMC/TOC and moto	
	information	
	Comm. and detec preservation and restora	
	preservation and restora	uon ⊡
	Signal coordination	
Transporation Significance	Priority	
Maintenance of Effort	4 to 5 years	

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https://ocfundtracker.octa.net/ranking\_edit.asp?project\_id=CP--2977&version=1

3/16/2011