



# Memorandum

**TO:** HONORABLE MAYOR AND  
CITY COUNCIL

**FROM:** James R. Helmer

**SUBJECT:** 2009-2010 TRANSPORTATION FUND  
FOR CLEAN AIR GRANT

**DATE:** 09-28-09

Approved

Date

10/2/09

**COUNCIL DISTRICT:** 2, 3, 6, 7, and 10

**SNI AREA:** 13th Street

Brookwood Terrace

Edenvale

Great Oaks

Five Wounds

Spartan-Keys

Tully-Senter

University

## RECOMMENDATION

Approval of a Transportation Fund for Clean Air (TFCA) grant agreement with the Santa Clara Valley Transportation Authority (VTA) in the amount of \$501,674 for the retiming of 109 traffic signals.

## OUTCOME

Approval of the grant agreement will provide for the retiming of 109 traffic signals to improve travel flow conditions on 21 miles of arterial roadways within the City. Upon completion of this signal retiming project, travel time savings of up to 15% are anticipated along 14 commute corridors.

## BACKGROUND

In August 2008, City Council approved acceptance of a \$15 million Proposition 1B Traffic Light Synchronization Program (TLSP) grant for the Traffic Signal Communication and Synchronization Project. As the acceptance of this grant required a \$5 million local match, the Department of Transportation (DOT) has actively pursued other grants to help satisfy this requirement. On May 1, 2009, VTA Board of Directors approved \$501,674 under its TFCA 2009-2010 program for the retiming of 109 traffic signals within the City. This grant will serve

to offset the total project cost of the Traffic Signal Communication and Synchronization Project by \$501,674.

### ANALYSIS

The TFCA grant provides for the procurement of consultant services to collect traffic data, and to design and implement coordinated "time-of-day" signal timing plans for 109 traffic signals along 14 commute corridors within the City (See Attachment A). The grant will also fully fund staff's time to administer and implement the retiming project. The retiming of the 109 traffic signals will be completed by Fall 2010.

This project will play a critical role in delivering the following annual environmental benefits and fuel savings to the region:

- Reduce fuel consumption by 113,000 gallons, saving nearly \$255,000 in fuel costs;
- Reduce vehicle emissions harmful to air quality by 5 tons and reduce greenhouse gas emissions (CO<sub>2</sub>) by nearly 3,200 tons;
- Reduce vehicle travel time on retimed corridors by 15%, eliminating 151,000 hours of vehicle delay, and providing delay savings of \$9 million to the traveling public.

This TFCA grant agreement is the second grant the City has received to assist with offsetting the \$5 million match required as part of the Proposition 1B TLSP grant funding. In May 2009, City Council approved an agreement with the Metropolitan Transportation Commission to receive \$800,000 in consultant services for the retiming of 318 traffic signals. DOT intends to submit a proposal to VTA in January 2010 for 2010-2011 TFCA cycle grant funds for the retiming of approximately another 180 traffic signals, which would complete all of the traffic signal retiming work within the City as part of the Traffic Signal Communication and Synchronization Project.

Summary of the key provisions of the proposed grant agreement are as follows:

1. Grant expenditures are reimbursable on a quarterly basis
2. Grant eligible expenditures begin on July 1, 2009
3. All project expenditures must be submitted by June 30, 2011, unless an extension is requested and approved by VTA
4. City shall indicate in all news releases and press releases that the TFCA program funded the retiming project
5. No more than 5% of administrative cost are eligible for reimbursement
6. City is required to submit a mid-year and year end progress report to VTA
7. City is required to maintain necessary records of performance to evaluate emissions reductions
8. Maintain insurance requirements throughout the term of the contract
9. Indemnify, defend and hold harmless VTA and Bay Area Air Quality Management District against any and all liabilities
10. City is to maintain project files for a period of three years after final payment for review by the State Auditor

The above provisions are typical of the three TFCA funding agreements that DOT has executed with VTA over the past 4 years. DOT has successfully managed and closed out two of those TFCA grant funded projects within the past three years. The third project is currently in the implementation phase.

### **EVALUATION AND FOLLOW-UP**

This project addresses the following performance measures under the Transportation Operations core service and will be reported through the normal reporting cycles:

- % of traffic signals proactively re-timed citywide
- % of customers rating services good or better based upon timeliness, added safety, and satisfaction with traffic solution

No additional follow-up actions with the Council are expected at this time.

### **PUBLIC OUTREACH/INTEREST**

For the acquisition of consultant services related to signal timing, a request for proposals will be posted on the City's Internet Bid Line.

- Criterion 1:** Requires Council action on the use of public funds equal to \$1 million or greater. **(Required: Website Posting)**
- Criterion 2:** Adoption of a new or revised policy that may have implications for public health, safety, quality of life, or financial/economic vitality of the City. **(Required: E-mail and Website Posting)**
- Criterion 3:** Consideration of proposed changes to service delivery, programs, staffing that may have impacts to community services and have been identified by staff, Council or a Community group that requires special outreach. **(Required: E-mail, Website Posting, Community Meetings, Notice in appropriate newspapers)**

While this item does not meet the \$1 million threshold under Criterion 1, this memorandum will be posted on the City's website for the October 6, 2009 City Council meeting.

### **COORDINATION**

This memorandum has been coordinated with the City Attorney's Office, the City Manager's Budget Office, and the Department of Planning, Building and Code Enforcement.

**FISCAL/POLICY ALIGNMENT**

The TFCA grant agreement will support the City’s Transportation and Aviation City Service Area (CSA) outcomes to “Provide a Transportation System that Enhances Community Livability”, and that, “Travelers Have a Positive, Reliable and Efficient Experience”.

The grant agreement also supports the Council-approved Budget Principle to leverage State and Local grant funds to implement regional transportation projects.

**COST SUMMARY/IMPLICATIONS**

The total cost of the retiming project is \$501,647 of which 100% will be funded by the reimbursable TFCA 2009-2010 grant funds. Funding for this project is included in the 2009-2010 Traffic Capital Budget under the TLSP appropriation. The City is anticipated to receive \$150,000 in revenues for the portion of eligible grant expenditures anticipated to occur in 2009-2010 and the remaining grant revenue of \$351,674 is anticipated to be received in 2010-2011. Recommendations to recognize the receipt of this revenue will be brought forward for Council consideration as part of the 2010-2011 Proposed CIP Budget Process.

**BUDGET REFERENCE**

The table below identifies the fund and appropriation proposed to fund the project included in this memo.

Fund #	Appn #	Appn. Name	Total Appn.	Total Amt. for Project	2009-2010 Proposed Capital Budget	Last Budget Action (Date, Ord. No.)
429	6624	Traffic Signal Communications and Synchronization	\$12,540,000	\$501,674	V - 786	06/23/09, Ord. No. 28593
<b>Total Funding Available</b>			<b>\$12,540,000</b>	<b>\$501,674</b>		

**CEQA**

Resolution 60197 and 63179, File No. PP08-154

/s/

JAMES R. HELMER  
Director of Transportation

For questions please contact Lily Lim-Tsao, DOT Division Manager, at 975-3269.

Attachment

**ATTACHMENT A**  
**TFCA FY09-10 Traffic Signal Retiming List**

<b>Intersection</b>	<b>Corridor Name</b>
ALAMEDA & NIMITZ FR S	The Alameda
ALAMEDA & JULIAN ST	The Alameda
ALAMEDA & NEWHALL ST	The Alameda
ALAMEDA & LENZEN AV	The Alameda
ALAMEDA & HEDDING ST	The Alameda
ALAMEDA & MARTIN AV/RACE ST	The Alameda
ALAMEDA & NAGLEE ST/TAYLOR ST	The Alameda
ALAMEDA & NIMITZ FR N	The Alameda
BLOSSOM HILL RD & WEST VALLEY FR W	Blossom Hill Rd E
BLOSSOM HILL RD & ENTRADA CEDROS/W. VALLEY FRWY	Blossom Hill Rd E
BLOSSOM HILL RD & SNELL AV	Blossom Hill Rd E
BLOSSOM HILL RD & SUNRISE PLAZA DW	Blossom Hill Rd E
BLOSSOM HILL RD & JUDITH ST	Blossom Hill Rd E
BLOSSOM HILL RD & EAGLES LN	Blossom Hill Rd E
BLOSSOM HILL RD & LEAN AV	Blossom Hill Rd E
BLOSSOM HILL RD & POUGHKEEPSIE RD	Blossom Hill Rd E
BLOSSOM HILL RD & CAHALAN AV	Blossom Hill Rd E
BESWICK DR & BLOSSOM HILL RD	Blossom Hill Rd E
BLOSSOM HILL RD & INDIAN AV	Blossom Hill Rd E
BLOSSOM HILL RD & CHESBRO AV	Blossom Hill Rd E
BRANHAM LN & SNELL AV	Snell Av
BRANHAM LN & BRANHAM PLAZA DW	Snell Av
BRANHAM LN & PARK ARCADIA DR/RUE LYON	Snell Av
TAYLOR ST & THIRTEENTH ST	Taylor St
TAYLOR ST & TENTH ST	Taylor St
ELEVENTH ST & TAYLOR ST	Eleventh St
ELEVENTH ST & ST JOHN ST	Eleventh St
ELEVENTH ST & JULIAN ST	Eleventh St
ELEVENTH ST & JACKSON ST	Eleventh St
ELEVENTH ST & EMPIRE ST	Eleventh St
ELEVENTH ST & SAINT JAMES ST	Eleventh St
SAINT JAMES ST & TENTH ST	Tenth St
EMPIRE ST & TENTH ST	Tenth St
JACKSON ST & TENTH ST	Tenth St
SAINT JOHN ST & TENTH ST	Tenth St
JULIAN ST & TENTH ST	Tenth St
BRANHAM LN & PEARL AV	Branham Ln
BRANHAM LN & NARVAEZ AV	Branham Ln
BRANHAM LN & VISTAPARK DR	Branham Ln
BRANHAM LN & MONTEREY RD	Monterey Rd
SANTA CLARA ST & SECOND ST	Santa Clara St
FIRST ST & SANTA CLARA ST	First St
ELEVENTH ST & SANTA CLARA ST	Eleventh St

<b>Intersection</b>	<b>Corridor Name</b>
ALMADEN AV & SANTA CLARA ST	Santa Clara St
GUADALUPE FR & SANTA CLARA ST	Santa Clara St
SAN PEDRO ST & SANTA CLARA ST	Santa Clara St
FIFTH ST & SANTA CLARA ST	Santa Clara St
SANTA CLARA ST & THIRTEENTH ST	Santa Clara St
SANTA CLARA ST & TENTH ST	Santa Clara St
NINTH ST & SANTA CLARA ST	Santa Clara St
ALMADEN BL/NOTRE DAME AV & SANTA CLARA ST	Santa Clara St
SANTA CLARA ST & SIXTH ST	Santa Clara St
SANTA CLARA ST & SEVENTH ST	Santa Clara St
SANTA CLARA ST & THIRD ST	Santa Clara St
MONTEREY RD & UMBARGER RD	Monterey Rd
MONTEREY RD S & TULLY RD	Monterey Rd
MONTEREY RD & SKYWAY DR	Monterey Rd
LEWIS RD & MONTEREY HW	Monterey Rd
EDENVIEW DR & MONTEREY RD	Monterey Rd
CHYNOWETH AV/ROEDER RD & MONTEREY RD	Monterey Rd
MONTEREY RD & SENTER RD	Monterey Rd
FEHREN DR & MONTEREY RD	Monterey Rd
MONTEREY RD & SOUTHSIDE DR	Monterey Rd
CAPITOL EX & MONTEREY RD N	Monterey Rd
CAPITOL EX & MONTEREY RD S	Monterey Rd
CURTNER AV/TULLY RD & MONTEREY RD	Curtner Av
COLEMAN AV & HEDDING ST	Coleman Av
AIRPORT BL & COLEMAN AV	Coleman Av
COLEMAN RD & MCKENDRIE ST	Coleman Av
COLEMAN AV & TAYLOR ST	Coleman Av
AVIATION DR/FMC RD & COLEMAN AV	Coleman Av
COLEMAN AV & NEWHALL ST/NIMITZ FR N	Coleman Av
AUTUMN ST & COLEMAN AV	Coleman Av
COLEMAN AV & SAN JOSE MKT DW	Coleman Av
COLEMAN AV & NEWHALL DR	Coleman Av
SANTA TERESA BL & THORNWOOD DR	Guadalupe Fy/W. Valley Fy/Santa Teresa Bl
FOURTH ST & SAN CARLOS ST	Fourth St
FOURTH ST & REED ST	Fourth St
FOURTH ST & SAN FERNANDO ST	Fourth St
FOURTH ST & WILLIAM ST	Fourth St
FOURTH ST & SAN SALVADOR ST	Fourth St
FOURTH ST & PASEO DE SAN ANTONIO	Fourth St
REED ST & THIRD ST	Third St
THIRD ST & WILLIAM ST	Third St
SAN SALVADOR ST & THIRD ST	Third St
SAN FERNANDO ST & THIRD ST	Third St
PASEO DE SAN ANTONIO & THIRD ST	Third St
SAN CARLOS ST & THIRD ST	Third St
KEYES ST & TENTH ST	Keyes St
KEYES ST & SENTER RD	Keyes St
ELEVENTH ST & KEYES ST	Keyes St

KEYES ST & SEVENTH ST	Keyes St
NEEDLES DR & SENTER RD	Senter Rd
BURKE ST & SENTER RD	Senter Rd
SENER RD & WOOL CREEK DR	Senter Rd
ALMA AV & SENTER RD	Senter Rd
PHELAN AV & SENTER RD	Senter Rd
SENER RD & UMBARGER RD	Senter Rd
SENER RD & TULLY RD	Senter Rd
LEWIS RD & SENTER RD	Senter Rd
FELDSPAR DR & SENTER RD	Senter Rd
PARROTT ST & SENTER RD	Senter Rd
SANTA CLARA ST & TWENTY FOURTH ST	Santa Clara St
SANTA CLARA ST & TWENTY SIXTH ST	Santa Clara St
FIFTEENTH ST & SANTA CLARA ST	Santa Clara St
SANTA CLARA ST & TWENTY EIGHTH ST	Santa Clara St
SANTA CLARA ST & TWENTY FIRST ST	Santa Clara St
SANTA CLARA ST & SEVENTEENTH ST	Santa Clara St
NINETEENTH ST & SANTA CLARA ST	Santa Clara St