



AGENDA REPORT

SAN CLEMENTE CITY COUNCIL MEETING

Meeting Date: June 18, 2013

Agenda Item 6F
Approvals:
City Manager PPS
Dept. Head WEC
Attorney _____
Finance JV

Department: Public Works / Engineering
Prepared By: Tom Frank, Transportation Engineering Manager TF

Subject: **CONTRACT AWARD FOR TRAFFIC SIGNAL SYSTEMS UPGRADE AND SUPPLEMENTAL APPROPRIATION.**

Fiscal Impact: Yes. The supplemental appropriation will reduce the Gas Tax Fund balance from \$2.1 to \$2.0 million.

Summary: The construction phase of the traffic signal synchronization for Avenida Pico and El Camino Real corridors was recently bid. Staff recommends that City Council approve a supplemental appropriation of \$154,000 and approve a contract with Select Electric, Inc. in the amount of \$597,000.

Background: On March 15, 2011, the City Council adopted a resolution directing staff to submit grant applications for the Project P Regional Traffic Signal Synchronization Program for the Avenida Pico and El Camino Real corridors. The grants are part of the Orange County Transportation Authority (OCTA) Measure M program with a maximum grant reimbursement percentage of eighty percent. The City received the two grants totaling \$776,452.

The objective of these projects is to provide traffic signal synchronization along these corridors to reduce travel delays and congestion. These improvements will also begin the backbone of a full web-based Traffic Management System which is a long term goal of the City. The projects will synchronize the 21 signalized intersections on Avenida Pico from El Camino Real to Camino Celosia and the 17 signals on El Camino Real from San Luis Rey to Camino Capistrano, including the I-5 freeway ramp intersections.

On June 12, 2012, City Council approved a contract with Advantec Consulting Engineers for Traffic Engineering Services including preparing a bid package for the Signal Synchronization of these corridors. The designs were completed and the projects bid.

Discussion: Bids were opened on May 6, 2013, and the results are presented in the Bidders' Listing provided in Attachment 3. Select Electric, Inc. is the lowest responsive bidder, with a bid amount of \$597,000. Next lowest bid was 16% higher than the lowest bid with bids up to \$917,000. Considering the range of bids, the results of staff's reference checks, and bid evaluation; staff deems Select Electric, Inc. the lowest responsible and responsive bidder.

Based on the low bid, the project budget summary provided in Attachment 5 shows total project budget of \$1,033,000 and estimated an expenditure of \$1,187,000, leaving a \$154,000 shortfall. The estimated expenditures include a 5% construction contingency, budget for construction inspection, and estimated costs for the Caltrans Encroachment Permit that was not included in previous estimates or in the grant applications. The project budget also includes the new controllers and a new web-based central traffic system previously awarded by City Council on April 16, 2013.

Considering the benefits of synchronizing the signals along Avenida Pico and El Camino Real, staff recommends a supplemental appropriation and award of the construction contract. To help offset the additional budget appropriations, staff will complete the following budget actions:

1. Close out the Traffic Signal System Hardware and software Project (Account No. 012-861-45300-000-18803) which will return the remaining balance of \$50,300 to the Gas Tax Fund balance. With the implementation of the new web based central system, the additional upgrades to the previous central system software program are no longer needed.

If Council approves the supplemental appropriation and contract, the construction and signal synchronization work is scheduled to be completed by the end of the year.

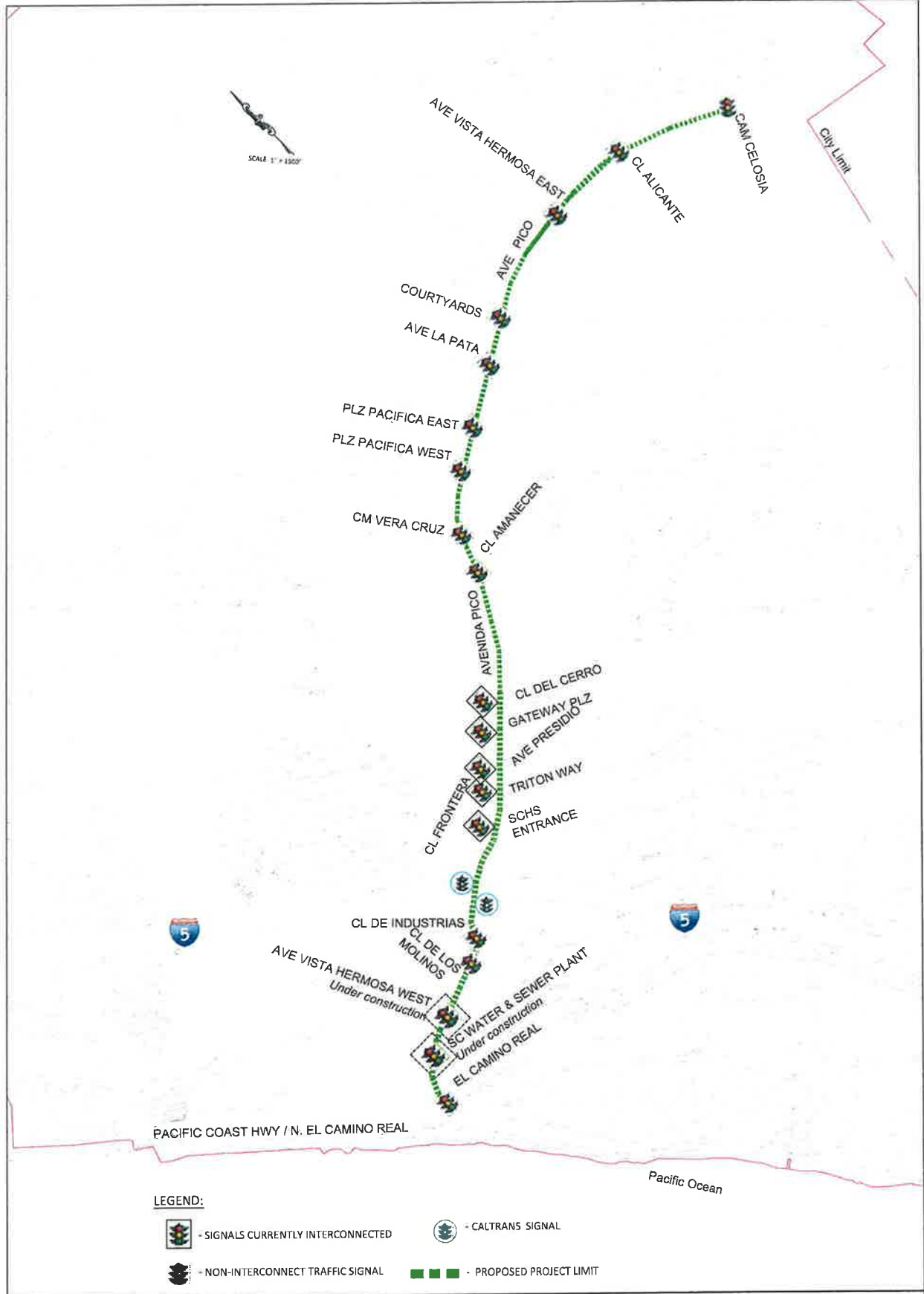
Recommended

Action: STAFF RECOMMENDS THAT the City Council:

1. Authorize the Mayor to execute a contract with "Select Electric, Inc." in the amount of \$597,000 for "Traffic Signal Systems Upgrade" project for Avenida Pico and El Camino Real (Project Nos. 13305 & 13307);
2. Approve a supplemental appropriation in the amount of \$107,000 from the Gas Tax undesignated fund balance to Account No. 012-861-45300-000-13305 (Avenida Pico Signal Synchronization Project); and
3. Approve a supplemental appropriation in the amount of \$47,000 from the Gas Tax undesignated fund balance to Account No. 012-861-45300-000-13307 (El Camino Real Signal Synchronization Project).

Attachments: No. 1 - Location Map for Avenida Pico
No. 2 - Location Map for El Camino Real
No. 3 - Bidders' Listing
No. 4 - Select Electric, Inc.'s Bid Forms for Avenida Pico and El Camino Real
No. 5 - Project Budget Summary

Notification: None.



CITY OF SAN CLEMENTE

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 SAN CLEMENTE, CA 92673
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FIGURE 1 - LOCATION MAP

**AVENIDA PICO CORRIDOR
 TRAFFIC SIGNAL SYNCHRONIZATION**

3/7/2011 \\od\graphics_cdl\autocad_engr_drawing\traffic\traffic base maps\tdwg\citywide traffic signals.dwg

6F-3

BIDDER'S LISTING

BID OPEN TIME: 2:00 p.m.

BID OPEN DATE: May 6, 2013

PRESENT: *John D. ...*
David A. ...
Lucas ...

Traffic Signal Systems Upgrade: Avenida Pico, PN 18305
and El Camino Real, PN 13307. Project No. 13405
Jane Mrotek

Subject:

No. of Bids:

Company Information	Bid Bond, Etc.	<i>Re-Bid</i> Addendum No. 1 <i>May</i>	Addendum No. 2 <i>N/A</i>	Amount
Steiny and Company, Inc. P.O. Box 8100 12907 e. Garvey Ave. Baldwin Park, CA 91706	✓	✓		\$ 862,855.00
Sully-Miller Contracting Co. 135 S. State College Blvd., #400 Brea, CA 92821	✓	✓		\$ 970,859.00
Dynalectric 4462 Corporate Center Drive Los Alamitos, CA 90720-2539	✓	✓		\$ 822,060.00
FlatIron Electric Group, Inc. 7911-A Pine Avenue Chino, CA 91708	✓	✓		\$ 692,667.00
Select Electric Inc. P.O. Box 1775 Poway, CA 92074	✓	✓		\$ 597,000
Pro Tech Engineering 1173 N. Patt Street Anaheim, CA 92801-2568	✓	✓		\$ 758,800

BID FORM
TRAFFIC SIGNAL SYSTEMS UPGRADE
Avenida Pico, Project No. 13305

ITEM No.	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
1	Set up and Mobilization	1	LS	\$ 5,200 ⁻	\$ 5,200 ⁻
2	Install City-Furnished Controller in controller Cabinet complete.	18	EA	\$ 380 ⁻	\$ 6,840 ⁻
3	Furnish and install RGC Conduit and Bracket Strap	1	LS	\$ 2,600 ⁻	\$ 2,600 ⁻
5	Furnish and install fiber ready 3" PVC Schedule 80 conduit	6800	LF	\$ 17 ⁻	\$ 115,600 ⁻
7	Furnish and install tracer wire in new/existing conduit	15700	LF	\$ 0. ³⁵	\$ 5,495 ⁻
8	Furnish and install pull rope in new/existing conduit	15700	LF	\$ 0. ¹³	\$ 2,041 ⁻
9	Furnish and install 12-SMFO cable	18900	LF	\$ 0. ⁶⁶	\$ 12,474 ⁻
10	Furnish and install 24-SMFO cable	16200	LF	\$ 0. ⁶⁹	\$ 11,178 ⁻
11	Furnish and Install Terminal Server	7	EA	\$ 975 ⁻	\$ 6,825 ⁻
12	Furnish and install Fiber Patch Panel complete.	13	EA	\$ 640 ⁻	\$ 8,320 ⁻
13	Furnish and install No. 6 fiber optic pull box	6	EA	\$ 690 ⁻	\$ 4,140 ⁻
14	Furnish and Install Ethernet Switch (Layer 2)	11	EA	\$ 2,730 ⁻	\$ 30,030 ⁻
15	Furnish and Install Ethernet Switch (Layer 3)	2	EA	\$ 13,415 ⁻	\$ 26,830 ⁻
16	Perform System Integration	1	LS	\$ 3,450 ⁻	\$ 3,450 ⁻
17	Perform Fiber Splicing and Termination	13	EA	\$ 520 ⁻	\$ 6,760 ⁻
18	Cap all unused fiber optic stands	1	LS	\$ 100 ⁻	\$ 100 ⁻
19	Remove existing copper interconnect cables	1	LS	\$ 5,450 ⁻	\$ 5,450 ⁻
20	Remove and Salvage Pull Box and Repair Sidewalk	1	LS	\$ 515 ⁻	\$ 515 ⁻
23	As-Built Plans	1	LS	\$ 570 ⁻	\$ 570 ⁻

BID FORM
TRAFFIC SIGNAL SYSTEMS UPGRADE
Avenida Pico, Project No. 13305

ITEM No.	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
24	Test network communications equipments, System Integration, and Documentation	1	LS	\$ 3,500 ⁻	\$ 3,500 ⁻
28	Traffic Control	1	LS	\$ 4,500 ⁻	\$ 4,500 ⁻
29	Deliver and salvage all existing traffic signal cabinets and equipment to City yard at 390 Avenida Pico, San Clemente.	1	LS	\$ 830 ⁻	\$ 830 ⁻

Total Bid Price for Traffic Signal Systems Upgrade for Avenida Pico,

Project No. 13305: \$ 203,248.⁰⁰

Words: Two Hundred Sixty Three Thousand Two hundred forty eight and ⁰⁰/₁₀₀ DOLLARS

Bidder must indicate the Total Bid Price both in words and numbers. The Contract will be awarded to the lowest responsive and responsible bidder based on the Grand Total Bid Price written in words. In the event of a discrepancy between the Grand Total Bid Price written in words and the sum of the extensions in the bid forms, the sum of the extensions in the bid forms shall take precedence over the Grand Total Bid Price written in words.

BID FORM
TRAFFIC SIGNAL SYSTEMS UPGRADE
El Camino Real, Project No. 13307

ITEM No.	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
1	Set up and Mobilization	1	LS	\$ 5,200 ⁻	\$ 5,200 ⁻
2	Install City-Furnished Controller in controller Cabinet complete.	16	EA	\$ 380 ⁻	\$ 6,080 ⁻
4	Furnish and install Pelco Pole and "C" Bracket Strap	1	LS	\$ 11,000 ⁻	\$ 11,000 ⁻
5	Furnish and install fiber ready 3" PVC Schedule 80 conduit	5800	LF	\$ 18 ⁻	\$ 104,400 ⁻
6	Furnish, install, and terminate 2 pair phone line in conduit.	1500	LF	\$ 0.75	\$ 1,125 ⁻
7	Furnish and install tracer wire in new/existing conduit	11000	LF	\$ 0.70	\$ 7,700 ⁻
8	Furnish and install pull rope in new/existing conduit	11000	LF	\$ 0.13	\$ 1,430 ⁻
9	Furnish and install 12-SMFO cable	13000	LF	\$ 0.66	\$ 8,580 ⁻
10	Furnish and install 24-SMFO cable	11000	LF	\$ 0.71	\$ 7,810 ⁻
12	Furnish and install Fiber Patch Panel complete.	12	EA	\$ 640 ⁻	\$ 7,680 ⁻
13	Furnish and install No. 6 fiber optic pull box	13	EA	\$ 690 ⁻	\$ 8,970 ⁻
14	Furnish and Install Ethernet Switch (Layer 2)	11	EA	\$ 2,800 ⁻	\$ 30,800 ⁻
15	Furnish and Install Ethernet Switch (Layer 3)	1	EA	\$ 13,700 ⁻	\$ 13,700 ⁻
16	Perform System Integration	1	LS	\$ 3,500 ⁻	\$ 3,500 ⁻
17	Perform Fiber Splicing and Termination	12	EA	\$ 3,490⁻ ^{500⁻}	\$ 41,880⁻ ^{6,720⁻}
18	Cap all unused fiber optic stands	1	LS	\$ 1,330⁻ ^{100⁻}	\$ 100 ⁻
19	Remove existing copper interconnect cables	1	LS	\$ 1,330⁻ ^{2,400⁻}	\$ 2,400 ⁻
20	Remove and Salvage Pull Box and Repair Sidewalk	1	LS	\$ 515 ⁻	\$ 515 ⁻
21	Furnish and Install IP Radio System	12	EA	\$ 3,490 ⁻	\$ 41,880 ⁻

BID FORM
TRAFFIC SIGNAL SYSTEMS UPGRADE
El Camino Real, Project No. 13307

ITEM No.	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
22	Furnish and Install NEMA Cabinet	1	EA	\$ 1,330 ⁻	\$ 1,330 ⁻
23	As-Built Plans	1	LS	\$ 632 ⁻	\$ 632 ⁻
24	Test network communications equipments, System Integration, and Documentation	1	LS	\$ 3,500 ⁻	\$ 3,500 ⁻
25	Remove existing controller cabinet and foundation; furnish and install Type "P" stainless steel traffic controller cabinet (Model P44) and foundation. Reconnect 3M Opticom™ emergency vehicle pre-emption system, detection, safety monitor and all other miscellaneous auxilliary equipment and operational software needed for the intended operation in Model P44 cabinet. All cabinet appurtenances and cabinet hardware shall be stainless steel, including frames, bolts, etc.	1	EA	\$ 38,400 ⁻	\$ 38,400 ⁻
26	Remove existing foundation and electrical cabinet; furnish and install Type III stainless steel electrical service cabinet complete with Myers power backup system 2000E (full operation capable, to be installed for flash operation) battery backup system with four 80 Amp hour batteries. All cabinet hardware shall be stainless steel, including frames, bolts, etc. Coordinate meter removal and replacement with SDG&E.	1	EA	\$ 14,000 ⁻	\$ 14,000 ⁻
27	Temporary Existing Controller Cabinet	1	LS	\$ 1,500 ⁻	\$ 1,500 ⁻
28	Traffic Control	1	LS	\$ 4,500 ⁻	\$ 4,500 ⁻
29	Deliver and salvage all existing traffic signal cabinets and equipment to City yard at 390 Avenida Pico, San Clemente.	1	LS	\$ 300 ⁻	\$ 300 ⁻

Total Bid Price for Traffic Signal Systems Upgrade for El Camino Real,

Project No. 13307: \$ 333,752.⁰⁰

Words: Three Hundred Thirty Three Thousand Seven Hundred fifty two and ⁰⁰/₁₀₀ Dollars

BID FORM
TRAFFIC SIGNAL SYSTEMS UPGRADE
Avenida Pico, Project No. 13305 and
El Camino Real, Project No. 13307

Bidder must indicate the Total Bid Price both in words and numbers. The Contract will be awarded to the lowest responsive and responsible bidder based on the Grand Total Bid Price written in words. In the event of a discrepancy between the Grand Total Bid Price written in words and the sum of the extensions in the bid forms, the sum of the extensions in the bid forms shall take precedence over the Grand Total Bid Price written in words.

Grand Total Bid Price for Project Nos. 13305 and 13307: \$ 597,000.⁰⁰

Words: Five Hundred Ninety Seven Thousand and ⁰⁰/₁₀₀ Dollars

All quantities shown are estimates for bidding purposes only. The City reserves the right to delete any or all of the bid items from the projects. The contract will be awarded to the lowest responsive and responsible bidder, based on the grand total bid price.

BIDDER: SELECT ELECTRIC INC.

ADDRESS: P.O. BOX 1775 POWAY CA 92074

PHONE: 619. 460-6060

Attachment 5

Avenida Pico and El Camino Real Signal Synchronization Projects

Project Budget and Estimated Project Costs as of June 2013

	Pico	El Camino Real	Combined
Project Budget	\$ 460,000	\$ 573,000	\$ 1,033,000
Expenses			
Maintenance	\$ 52,920	\$ 45,360	\$ 98,280
Advantec (Design)	\$ 120,324	\$ 114,307	\$ 234,631
CT West (Controllers and Central Traffic System)	\$ 86,567	\$ 76,948	\$ 163,515
Select Electric (Infrastructure Contractor)	\$ 263,248	\$ 333,752	\$ 597,000
Contingency approximately 5%	\$ 22,978	\$ 29,436	\$ 52,414
Caltrans (Encroachment Permit and Appurtenant Costs)	\$ 5,600	\$ 5,600	\$ 11,200
Staff Time	\$ 2,513	\$ 2,387	\$ 4,900
Synchro Software	\$ 2,082	\$ 1,978	\$ 4,060
City inspection	\$ 10,769	\$ 10,231	\$ 21,000
Total Expenses	\$ 567,000	\$ 620,000	\$ 1,187,000
		47000	
Balance	\$ (107,000)	\$ (47,000)	\$ (154,000)

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