

RIVERSIDE TRANSIT AGENCY  
1825 Third Street  
Riverside, CA 92507

September 28, 2006

TO: BOARD OF DIRECTORS

THRU: Larry Rubio, Chief Executive Officer

FROM: Vince Rouzaud, Director of Purchasing and Materials Management

SUBJECT: Authorization to Amend Agreement No. 4-022 with Siemens VDO to Change from Hard Wired to Solar Powered Automated Traveler Information Systems Signs (ATIS) with Dual Cellular Controllers and add a Covert Alarm Interface to the Destination Sign and Digital Video Recorder (DVR); and, Delete Seventeen (17) Flexible Buses from the ITS Project

Summary: On May 26, 2005, the Board of Directors authorized staff to award a contract to Siemens VDO for Intelligent Transportation Systems (ITS) technology.

During the procurement process, the Agency expressed its desire to have the ATIS signs (branded OnStreet by Siemens) powered by solar energy. While none of the vendors that responded to the RFP had this technology available at that time, Siemens indicated that they were working on this technology and have recently been able to offer it to the Agency. Utilizing solar energy to power the OnStreet signs will save the Agency installation costs associated with hard wiring each sign and will also eliminate ongoing utility costs of approximately \$9,100 per year. In addition, the Agency will have greater flexibility in the placement and/or movement of each sign, thus, improving the speed of installation and increasing the number of possible installation locations.

Siemens also informed the Agency of their development of a cellular controller for the dual-sided OnStreet signs to allow both sides to be controlled by one cellular modem instead of two, thus lowering ongoing operational cellular costs. Because each side of the OnStreet sign is actually a separate sign, each side is normally controlled by its own cellular modem. The ability to operate both sides of the OnStreet sign using a single modem will reduce monthly cellular operating costs by approximately \$1,850 per month. (\$25 per cell site X 74 stops) This equates to a savings of \$22,000 in cellular operating costs per year.

The cost of the change order for the solar powered OnStreet signs is \$606,288 which includes installation of the solar panels (RTA staff to

install the sign poles). The cost for each hard-wired ATIS sign installation, estimated at \$9,500 per stop, is shown below:

Permitting	\$1,000
Metering	\$5,000
Trenching	\$2,500
Installation	<u>\$1,000</u>
<b>Total</b>	<b>\$9,500</b>

By choosing the solar powered OnStreet signs, the Agency saves the per stop costs for permitting, installation, metering, and trenching. This change order is actually less than the anticipated installation costs for the originally proposed hard-wired OnStreet equipment. (\$606,288 vs. \$703,000)

During the system design phase, staff discovered that the Agency's scope of work did not include the capability of having the Siemens' covert alarm button interface with the bus's destination headsign or the DVR. When the button is pressed, the Siemens system will send an alert to RTA dispatch notifying them of an emergency on the bus and identifying the exact location of the bus. The additional functionality would include a display on the headsign of an emergency message, such as "Call Police", and also flag the DVR so that the video of the event can easily be located and retrieved. These functions exist today; however, they were not part of the original scope of work. The cost to add this functionality is \$30,344. The total cost of this amendment is \$636,632.

Because the Agency's seventeen (17) 1995 Flxible buses will be near the end of their useful life when the ITS project is scheduled to be deployed next spring, staff has made a decision to forego installing the ITS equipment onto these buses. The resultant savings in deleting these buses from the project is a credit of \$103,150. This credit will be used to offset the changes noted above. The net fiscal impact of these change orders is \$533,482.

Fiscal Impact:

Transportation Uniform Mitigation Fee (TUMF) funding of \$23,795 has been appropriated for ATIS bus stop upgrades. The balance of \$509,687 is included in the Agency's fiscal year 2007 TUMF Program of Projects update and is contingent upon WRCOG approval.

Committee Recommendation:

This item was discussed at the Board Operations Committee meeting of September 13, 2006. The Committee members unanimously approved recommending this item to the full Board of Directors for their consideration.

Recommendation:

Authorize staff to amend Agreement No. 4-022 with Siemens VDO to add solar powered OnStreet signs with dual cellular controllers and a covert alarm interface to the destination sign and DVR and delete seventeen (17) Flexible buses from the project at a net cost of \$533,482.