

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

408



FROM: TLMA – Transportation Department

SUBMITTAL DATE:
November 3, 2014

SUBJECT: Approval for the Purchase of a Bridge Profilograph, Model CS8550, for the Riverside County Transportation Department. All Districts; [\$40,900]; Local Funds 100%

RECOMMENDED MOTION: That the Board of Supervisors:

1. Authorize the Chairman of the Board to approve the single source one-time purchase between Surface Systems & Instruments, Inc. and the Riverside County Transportation Department for a Bridge Profilograph, Model CS8550; and
2. Authorize the County Purchasing Agent to execute the purchase agreement for a one-time purchase of this equipment.

BACKGROUND:

Summary

The County of Riverside issued a request for a quotation from Surface Systems & Instruments (SSI), Inc., the sole supplier for this type of equipment.

Patricia Romo
Assistant Director of Transportation
for Juan C. Perez
Director of Transportation and Land Management

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (Per Exec. Office)
COST	\$ 40,900	\$ 0	\$ 40,900	\$ 0	Consent <input type="checkbox"/> Policy <input checked="" type="checkbox"/>
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 0	
SOURCE OF FUNDS: Gas Tax (100%). There are no General Funds used in this project.				Budget Adjustment: N/A	
				For Fiscal Year:	2014/2015

C.E.O. RECOMMENDATION:

APPROVE
BY:
Tina Grande

County Executive Office Signature

MINUTES OF THE BOARD OF SUPERVISORS

Departmental Concurrence

Purchasing:
Mark Seiler, Assistant Director

- Positions Added
- Change Order
- A-30
- 4/5 Vote

Prev. Agn. Ref.: | **District:** All/All | **Agenda Number:**

3-18

SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA
FORM 11: Approval for the Purchase of a Bridge Profilograph, Model CS8550, for the Riverside County Transportation Department. All Districts; [\$40,900]; Local Funds 100%

DATE: November 3, 2014

PAGE: 2 of 2

BACKGROUND:

Summary (continued)

Profilograph Model CS8550 is a surface profiling device specifically designed for surface ride quality testing of bridge structures in accordance with California Department of Transportation (Caltrans) Test Method No. 547. Caltrans historically performed this testing for local agencies to ensure bridge deck smoothness for adequate ride quality. However, recent changes to Caltrans policy now require local agencies to perform this testing independently.

After the Transportation Department was given notice by Caltrans that they would no longer provide the ride quality testing, the Department conducted a thorough search of available vendors. Caltrans requires the testing to be done using the CS8550 Bridge Profilograph system, which is manufactured solely by SSI, Inc.

In order to comply with bridge deck surface smoothness requirements, per the Caltrans Standard Specifications, the Transportation Department has determined that it is more cost effective to acquire the device than to lease the equipment on a project-to-project basis.

Operating the device will require certified technicians, which the Transportation Department will provide. Surface profiling is a required test for deck smoothness for all bridge projects administered by the Transportation Department within the State Highway System. The CS8550 model is a Profilograph device custom built to meet Caltrans California Test Method No. 547 for bridge structures.

Impact on Residents and Businesses

N/A

SUPPLEMENTAL:

Additional Fiscal Information

N/A

Contract History and Price Reasonableness

SSI, Inc. is a California-based manufacturer of the Profilograph unit. The unit comes complete with a one-year parts and labor warranty, technical support, and training. The unit also includes an enclosed cargo trailer with custom hardware for secure transit and storage of the unit, spreadsheet software, and a laptop computer.

Prices offered the County are the same offered all comparable government entities.

SOLE SOURCE REQUEST

Date: 8/5/2014

From: Patricia Romo
(Director or designee)

Department/Agency: Transportation

To: Board of Supervisors/Purchasing Agent

Via: Purchasing Agent

Subject: Sole Source Procurement; Request for Bridge Profilograph

The below information is provided in support of my Department requesting approval for a sole source. Outside of a duly declared emergency, the time to develop a statement of work or specifications is not in itself justification for sole source.

- 1. Supply/Service being requested: Bridge Profilograph
- 2. Supplier being requested: Surface Systems & Instruments (SSI)
- 3. Alternative suppliers that can or might be able to provide supply/service: See Attached Memo
- 4. Extent of market search conducted: See Attached Memo
- 5. Unique features of the supply/service being requested from this supplier, which no alternative supplier can provide: See Attached Memo
- 6. Reasons why my department requires these unique features and what benefit will accrue to the county: See Attached Memo
- 7. Price Reasonableness including purchase price and any ongoing maintenance or ancillary costs from the supplier: See Attached Memo
- 8. Does moving forward on this product or service further obligate the county to future similar contractual arrangements or any ongoing costs affiliated with this sole source? (Maintenance, support, or upgrades, if so, please explain). See Attached Memo
- 9. Period of Performance: See Attached Memo

(Provide a defined period of performance. Please note multi-year terms require Board approval, unless renewable in one year increments and the Purchasing Agent approves the terms.)



Department Head Signature

11/6/14

Date

Purchasing Department Comments:

Approve

Approve with Condition/s

Disapprove

Not to exceed: \$ 40,900

One time

Annual Amount through _____



11-10-14

15-297

Purchasing Agent

Date

Approval Number
(Reference on Purchasing Documents)



COUNTY OF RIVERSIDE
*TRANSPORTATION AND
LAND MANAGEMENT AGENCY*



*Juan C. Perez
Director of Transportation*

Transportation Department
MEMORANDUM
Materials Laboratory

TO: Janice Almazan, Accounting Technician II

DATE: 8/5/2014

FROM: Gary Morton/Elmer Datuin, Materials Lab

RE: Supplement to Sole Source Request Form

The information provided below answer questions #3 through #9 on the Sole Source Request form for the Bridge Profilograph:

#3) Alternate suppliers that can or might be able to provide equipment:

No alternate suppliers available. SSI is the only manufacturer of this specialized testing equipment that complies with Caltrans' specification for bridge decks profiling.

#4) Extent of market search conducted:

Performed a thorough internet search; contacted Caltrans and they have provided SSI as the only supplier that would meet CT 547.

#5) Unique features of the equipment being requested from this supplier, which no alternative supplier can provide:

SSI is the only builder that supplies a Bridge Profilograph, which is approved for the CT 547. The CT 547 is specific to Caltrans' approved deck smoothness test required by Caltrans on all bridges built in the State Highway System.

#6) Reasons why my department requires this unique equipment and what benefit will accrue to the county:

Caltrans no longer performs Profilograph testing for local agencies for both roadways and bridge decks. Profilograph testing (CT 547) is a required test for bridge deck smoothness prior to acceptance of the bridge structure. Owning this equipment would alleviate construction delays due to the unavailability of the equipment. It has also the potential to be marketed to neighboring cities/counties that would also need this testing.

- #7) Price Reasonableness including purchase price and any ongoing maintenance or ancillary costs from supplier:

The cost is very reasonable for a custom built piece of equipment, including free software updates for four years, training and certification for up to 10 operators, plus one-year parts and labor warranty. Manufacturer is in Northern California, which facilitates future parts and calibration needs.

- #8) Does moving forward on this product obligate the county to future similar contractual arrangements or any ongoing costs affiliated with this sole source?

There are no contractual arrangements needed other than for future parts, repairs, calibration, and software updates if necessary.

- #9) Period of Performance:

This is a one-time purchase for the equipment. There may be future purchases for repairs and calibration on a case by case basis.

The useful life of the Bridge Profilograph is estimated at 25 years, depending on the physical wear and tear and technological changes that bear on the economic usefulness of the equipment. Software and other electronic components may need updating every five to seven years to be in compliance with current standards.

Renting this equipment would cost approximately \$3,000 to \$5,000 for each bridge depending on the span and number of bridge structures (one structure for each direction of travel). It is estimated that a cost benefit for the purchase of this equipment would be realized within five to seven years, based on the number of bridge projects (about two bridges per year on average) the Transportation Department has completed within the last four years.



SURFACE SYSTEMS & INSTRUMENTS, INC.
Custom Test Equipment • Mobile Technology Solutions

California 1845 Industrial Drive Auburn, California 95603 Telephone: (530) 885-1482 Facsimile: (530) 885-0593	Kansas 307 Plymate Manhattan, Kansas 66502 Telephone: (785) 539-6305 Facsimile: (415) 358-4340
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smoothroad.com

July 3, 2014

Elmer Datuin
County of Riverside Transportation & Land Management Agency
2950 Washington Street
Riverside, CA 92504
Tel: (951) 955-6762
E-mail: edatuin@rctlma.org

Re: SSI as Sole Source Supplier for CS8500 Bridge Profilograph

Elmer:

This is to certify that Surface Systems & Instruments, Inc. (SSI) is the manufacturer and sole source supplier of the CS8550 bridge profilograph system for automated testing in compliance with CalTrans Test Method 547 ("Method of Test for Operation of Bridge Profilograph and Evaluation of Profiles"). The CS8550 equipment is to the best of SSI's knowledge and information, the only commercially available device that collects and analyzes data in compliance with CalTrans TM 547. SSI's Quote 14070436 (dated July 2, 2014) to Riverside County offers the CS8550 at SSI's standard price. The pricing offered to Riverside County is the same price that SSI quotes for independent third parties who request CS8550 pricing from SSI.

If you have any questions or need further information, please contact the undersigned at (415) 383-0570 or by email at dscott@smoothroad.com. We will assist as best we can.

SURFACE SYSTEMS & INSTRUMENTS, LLC

By: Dennis P. Scott, President



California 1845 Industrial Drive Auburn, California 95603 Telephone: (415) 383-0570 Facsimile: (415) 358-4340	Kansas 307 Plymate Lane Manhattan, Kansas 66502 Telephone: (785) 539-6305 Facsimile: (415) 358-4340
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SURFACE SYSTEMS & INSTRUMENTS, INC.
Custom Test Equipment • Mobile Technology Solutions

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SALES QUOTATION
 (CS8550 Bridge Profilograph)

Elmer Datuin
County of Riverside Transportation & Land Management Agency
 2950 Washington Street
 Riverside, CA 92504
 Tel: 951-955-6762
 E-mail: edatuin@rctlma.org



CS8550 Bridge Profilograph

Quote No.	Date	Customer P.O. No.	Terms	Notes
14070436	July 2, 2014		Net 30	Remit to P.O. Box 790, Larkspur, CA 94977 *SSI is a California Certified Small Business (#1765609) SSI Taxpayer ID: 39-1850182

Line	Item	Description	Rate	Qty	Price
1.	CS8550 Bridge Profilograph Frame System	<ul style="list-style-type: none"> • CS8550 computerized profilograph frame system. Includes 12' aluminum frame, wheel chassis (4 wheels each end, powder coated orange), digital profile measurement system, optical encoders, related cabling and wiring; • Bi-directional frame operating system with quick-release forward/reverse steering hardware; • Detachable field housing for operator station computer and onboard printer (w/ power assisted paper take-up spooling system), DC power supplies (useable in field or office). 	\$15,000	1	\$15,000
2.	CS8550 Profiling System Electronics, Toughbook Computer, Windows Data Collection and Analysis Software	<ul style="list-style-type: none"> • SSI patented bi-directional micro-controller electronic data collection system; • SSI Contact / Profiler profilograph software routines (MS Windows based user interface) • Patented dual wheel path data collection and reporting data collection and analysis software; • Adjustable parameters for compliance with applicable DOT or agency profilograph specifications; • Operator interface computer: Panasonic Toughbook 19 with color touch screen display; MS Windows 7 operating system. (configured with SSI profilograph data collection and analysis software; • Software license for profilograph and office computer use; • GPS electronics and software, includes (i) integration of GPS positioning with profiling system stationing and must-grind bump/dip 	\$12,000	1	\$12,000

		data), (ii) integration of GPS and profile data files with Google Earth for viewing overhead images of test location. •Guaranteed compliance with DOT specifications, including ASTM 1274-E, CalTrans Test Method 547.			
3.	Power Supply	•Lightweight 1000 watt gasoline engine generator AC power supply, with mounting hardware and cabling for profilograph system.	\$850	1	\$850
4.	Subtotal	CS8550 Bridge Profilograph			\$27,850
Delivery & Training					
5.	Shipping & Handling	Delivery from SSI Auburn, California to customer location (Riverside, CA).	\$1,886	1	\$1,886
6.	Operator Training	Operator training at delivery destination; includes classroom session, written test (70% to pass) and field session. Certificates supplied.	\$1,500	1	\$1,500
7.	TOTAL	CS8550 Bridge Profilograph			\$31,236
Options & Accessories					
8.	Cargo Trailer with Profilograph Storage System	Enclosed premium cargo trailer with custom hardware kit installed for secure transit and storage of profilograph system.	\$5,500	1	\$5,500
9.	Secondary Power Supply	Battery Power Supply for Data Collection System (includes weatherproof battery, interface cable and AC adaptor).	\$495	1	\$495
10.	Integrated Microsoft Excel Data Translation Routine	Spreadsheet software for integrated export of surface profile test results and localized roughness into Microsoft Excel spreadsheets. Includes integration and testing of direct export of profile data into SSI supplied Excel templates for PRI, IRI and localized roughness.	\$450	1	\$450
11.	Toughbook Accessory	CD-RW/DVD combos drive for Toughbook 19	\$296	1	\$296
12.	Subtotal	CS8550 Bridge Profilograph			Open
13.	Sales Tax	Payable by Customer (if applicable)			\$0.00
14.	TOTAL	CS8550 Bridge Profilograph			Open

Delivery Estimate: 4-8 weeks.

Terms and Conditions: SSI Terms and Conditions of Sale are applicable and incorporated (see www.smoothroad.com/tandc.htm).