



Metro

Metropolitan Transportation Authority

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**OPERATIONS COMMITTEE
AUGUST 17, 2006**

**SUBJECT: CONTRACT NO. PS31501868, SPATIAL AND TEMPORAL ANALYSIS OF
TRANSPORTATION STATISTICS (STATS) APPLICATION
INTEGRATED SPATIAL SOLUTIONS, INC.**

**ACTION: AWARD A CONTRACT FOR MAINTENANCE AND ENHANCEMENT OF
OPERATIONS' SPATIAL AND TEMPORAL ANALYSIS OF
TRANSPORTATION STATISTICS (STATS) APPLICATION**

RECOMMENDATION

Authorize the Chief Executive Officer to award a five-year firm fixed labor rate contract under Contract No. PS31501868 with Integrated Spatial Solutions, Inc. for maintenance and enhancement of Operations' Spatial and Temporal Analysis of Transportation Statistics (STATS) application in the amount not-to-exceed \$753,754, inclusive of two one-year options effective September 1, 2006.

RATIONALE

Metro's Service Performance Analysis Department is tasked with collecting performance data from more than twenty different computer systems, and assembling meaningful information to assist management in directing bus and rail operations.

Service utilization analysis is essential to maintaining a transportation system that is efficient and meets the needs of Metro's patrons. During the last two years, Service Performance Analysis staff has developed a system (STATS) for spatial analysis (mapping) of data relating to the supply of service as scheduled in HASTUS and the demand of patrons as determined by the Advanced Transportation Management System (ATMS)/Automatic Passenger Counters (APC).

In the STATS application, supply is represented as the number of buses available by line, route, direction, pattern, day type and time period in each city block: Demand is expressed in terms of the observed utilization of seats within the same group of categories. A visual comparison of the two elements allows Planners, Schedule Managers and Schedulers to determine realistic capacity requirements in the creation and evaluation of schedules.

The department requires technical assistance in the annual maintenance, enhancement and further development of the STATS application. While the initial phases of the development have allowed for the first graphic visualizations of system performance as described above, the system still needs to be made more "user friendly," in order to be easily employed by the Schedule Planners and Schedule Makers who will benefit most from its existence.

The proposed enhancements include:

- a) Improvements to processing speed
- b) Automation of the visual representation of the Supply/Demand Comparison
- c) Automation of selection of Rapid, Local Central Business District (CBD), Local Non-CBD, and Express lines
- d) Inclusion of a sector selection function
- e) Creation of a "file remnant deletion" function

The proposed additional functionalities include:

- a) Analysis and graphic representation of actual run time vs. scheduled time
- b) Graphic representation of bus dwell time analysis
- c) Graphic representation of average bus speed
- d) Graphic representation of accident data
- e) Graphic representation of in-service on-time performance data
- f) Graphic representation of road call/service interruption data
- g) Graphic representation of wheelchair passenger pick-up/drop-off
- h) Display of uncorrelated stops

Historically, scheduling staff has had to rely on customer complaints/feedback to determine the affects of schedule changes. The application will allow scheduling staff to see concrete graphically-displayed results within weeks of implementation of a new schedule.

FINANCIAL IMPACT

The funding of \$139,613 for the first year of this service is included in the FY07 budget in cost center 3150, Service Performance Analysis, Account 50316, Project number 100030.

Since this is a multi-year contract, the cost center manager and Deputy Chief Executive Officer will be accountable for budgeting the cost in future years, including any option exercised.

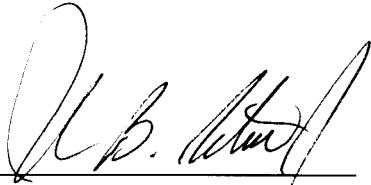
ALTERNATIVES CONSIDERED

The only alternative to hiring an outside consulting firm would be to establish several positions that would oversee the maintenance and enhancement of the existing system, as well as the development, enhancement, and maintenance of the required additional systems. Because of the broad range of specific talents, experience and expertise required and the high salary demand those would impart, this option is currently considered less cost effective than hiring the recommended consulting firm.

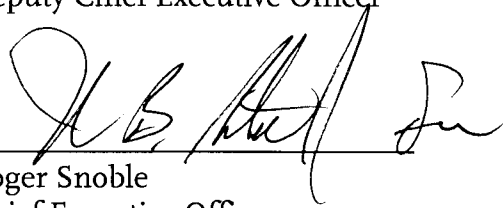
ATTACHMENTS

- A Procurement Summary
- A-1 Procurement History
- A-2 List of Subcontractors
- B Sample STATS report

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John B. Catoe, Jr.
Deputy Chief Executive Officer



Roger Snoble
Chief Executive Officer

**BOARD REPORT ATTACHMENT A
PROCUREMENT SUMMARY**

**SPATIAL AND TEMPORAL ANALYSIS OF TRANSPORTATION
STATISTICS MAINTENANCE AND ENHANCEMENT CONTRACT**

1.	Contract Number: PS31501868		
2.	Recommended Vendor: Integrated Spatial Solutions Inc.		
3.	Cost/Price Analysis Information:		
	A. Proposed Price: \$753,754	Recommended Price: \$753,754	
	B. Details of Significant Variances are in Attachment A-1.D		
4.	Contract Type: Firm Fixed Labor Rate		
5.	Procurement Dates:		
	A. Issued: May 1, 2006		
	B. Advertised: May 2, 2006		
	C. Pre-proposal Conference: May 17, 2006		
	D. Proposals Due: June 8, 2006		
	E. Pre-Qualification Completed: June 8, 2006		
	F. Conflict of Interest Form Submitted to Ethics: July 17, 2006		
6.	Small Business Participation:		
	A. Proposal Goal: No Goal Recommended	Date Small Business Evaluation Completed: N/A	
	B. Small Business Commitment: 0%		
7.	Invitation for Bid/Request for Proposal Data:		
	Notifications Sent: 44	Bids/Proposals Picked up: 53	Bids/Proposals Received: 2
8.	Evaluation Information:		
	A. Bidders/Proposers Names: Integrated Spatial Solutions, Inc. PI Technology, Inc.	Bid/Proposal Amount: \$753,754 \$780,959	Best and Final Offer Amount: N/A
	B. Evaluation Methodology: Details are in Attachment A-1.C		
9.	Protest Information:		
	A. Protest Period End Date: 8/21/06		
	B. Protest Receipt Date: N/A		
	C. Disposition of Protest Date: N/A		
10.	Contract Administrator: Victor Ramirez	Telephone Number: 213 922-1059	
11.	Project Manager: Jeff Neely	Telephone Number: 213 922-4032	

**BOARD REPORT ATTACHMENT A-1
PROCUREMENT HISTORY**

**SPATIAL AND TEMPORAL ANALYSIS OF TRANSPORTATION
STATISTICS MAINTENANCE AND ENHANCEMENT CONTRACT**

A. Background on Contractor

Integrated Spatial Solutions, Inc. (ISSI), Whittier CA, specializes in Geographic Information System (GIS) applications. ISSI helped Metro design the existing STATS application and has provided similar GIS and mapping services for Southern California Edison, the Los Angeles County Museum of Natural History and the South Central Coast Resource Information Center. ISSI's performance for Metro has been satisfactory to date.

B. Procurement Background

This is a competitively negotiated procurement under RFP PS31501868. The base contract is for a three-year period with two one-year options. This procurement is follow-on to the initial STATS development project under Contract FY051217, which was also competitively procured. The total value of FY051217 was \$173,000. This follow-on phase intends to also use a fixed labor rate contract since specific tasks are difficult to define in a software development atmosphere. Nonetheless, strong project management over site and the recommended contractor's past performance under this contract structure provides a high level of confidence that Metro will receive excellent support at a fair price.

C. Evaluation of Proposals

This procurement was conducted in accordance, and in compliance with standard Metro Procurement Policies and Procedures. The solicitation's evaluation criteria consisted of four major factors: Qualifications of the Firms, Staff Experience, Past Performance on similar projects, and Cost. Metro received proposals from two firms, ISSI and PI Technologies, Granada Hills, CA. Metro applied minimum qualification standards to both proposals and determined both firms to be qualified and responsible.

Applying the RFP's explicit evaluation criteria to both proposals, staff found ISSI to be the highest rated firm. ISSI also offers the lowest price when applying the estimated hours of performance to the proposed firm fixed labor rates.

D. Price Analysis Explanation of Variances

The recommended contract price was determined to be fair and reasonable based upon adequate price competition and award to the lowest price offer. Additionally, the fully burdened composite labor rate for all services categories is within 6% of Metro's project management cost estimate.

**BOARD REPORT ATTACHMENT A-2
LIST OF SUBCONTRACTORS**

**SPATIAL AND TEMPORAL ANALYSIS OF TRANSPORTATION
STATISTICS MAINTENANCE AND ENHANCEMENT CONTRACT**

PRIME CONTRACTOR – Integrated Spatial Solutions, Inc. (ISSI)

Small Business Commitment

No Goal Recommended

