APPROVED
BY THE CITY COUNCIL
MAY 27 1997
OFFICE OF THE
CITY CLERK

1.8

DEPARTMENT OF
PUBLIC WORKS

STREET DIVISION

CITY OF
SACRAMENTO
CALIFORNIA

1736 - 24TH. STREET
BUILDING NINE
SACRAMENTO, CA
95822-3699

PH 916-433-6336
FX 916-393-3725

BARRY BATES
STREET DIVISION MANAGER

May 8, 1997

City Council
Sacramento, California

Honorable Members in Session:

SUBJECT: ENHANCEMENT/UPDATE TO THE CITY OF SACRAMENTO PAVEMENT MANAGEMENT SYSTEM

LOCATION AND COUNCIL DISTRICT: All Districts

RECOMMENDATION: Authorize the Director of Public Works to execute Supplemental Agreement #1 to Agreement # 96-030 in an amount not to exceed $ 40,182.00.

CONTACT PERSON: Violet Jakab, Senior Engineer 433-6382
Maren Guerrero, Assistant Engineer 433-6336

FOR COUNCIL MEETING OF: May 27, 1997

City Council
Enhancement / Update to the City of Sacramento Pavement Management System
March 13, 1997

SUMMARY:

On February 28, 1996, the Sacramento City Council authorized the City Manager to enter into a Professional Services Agreement with Pavement Management Systems, Inc. a division of ITX Stanley, to enhance and update the City's existing Pavement Management System (PMS) using latest available technology. The goals of this project are the following:

- Update the field pavement performance data inventory
- Perform field right-of-way data collection
- Convert the existing PMS data into the new system
- Interface with the City's Geographical Information System (GIS)
- Install and test updated hardware and implement new software
- Train City staff in operation and field inventory

ITX will provide additional support in linking the PMS to the City's GIS and in training the City's personnel. This work is consistent with Exhibit A, attached.

COMMITTEE/COMMISSION ACTION:

None.

BACKGROUND INFORMATION:

The Intermodal Surface Transportation Efficiency Act (ISTEA)has mandated that every mile of Federal-aid highway be managed with a PMS. The definition of the PMS is as follows: a systematic process that provides, analyzes, and summarizes pavement information for use in selecting and implementing **cost-effective** pavement construction, rehabilitation, and maintenance programs.

On February 28th City Agreement No. 96-030 was executed between ITX and the City of Sacramento for the Enhancement/Update of the existing PMS and its tie to the City's GIS. Additional work is needed tying the PMS to the GIS and training the City's personnel on the updated version of the PMS computer program.

City Council
Enhancement /Update to the City of Sacramento Pavement Management System
March 13, 1997

FINANCIAL CONSIDERATIONS:

The replacement value of the City's road network is in the range of $500-600 million. In FY 1997 there is $5,600,000 budgeted for general maintenance and $3.3 million for capital improvements such as the overlay and street seal program. At this rate of investment in the next ten years the Pavement Quality Index (PQI) of the overall network will deteriorate from the existing 7.8 to below 6.0 The minimum acceptable PQI for arterial and collectors is 6.5 and for local streets are 5.5. The present maintenance backlog is approximately $ 50 million. Funds are available for the PMS in fund 202 item 101/310/3192/4472.

POLICY CONSIDERATIONS:

The PMS objective is an unbiased approach to planning street rehabilitation that minimizes long term cost while maximizing the life of streets. According to the Road Information Program (TRIP), a private non profit highway transportation research organization the costs to operate a vehicle are 11% higher on a road surface in fair condition and 29% higher on roads rated poor. The PMS aids the City Council in distributing available funds between new construction and maintaining the existing network.

MBE/WBE: Not applicable.

WILLIAM H. EDGAR
CITY MANAGER

Respectfully submitted,

Barry Bates
Manager, Street Division

Michael Kashiwagi
Director of Public Works

EXHIBIT A

ITX Stanley

October 24, 1996
61140101

CITY OF SACRAMENTO
Department of Public Works
5730 24th Street, Building 9
Sacramento, CA 95822-3699

Att: Violet Jakab
Senior Project Engineer

Re: PMS_GIS Map Link
Extra Work

Dear Violet:

As per your recent request, ITXSI is pleased to offer this proposal to assist in the rectification of the map data to correlate the proper sections and populate the PMS data base with that data to effect the link between the two databases, as well as to provide additional training.

TASK 1. PMS TO GIS MAP LINK

Kevin Shipp will conduct the work with the assistance of two technicians. They will operate with the Dynamic Segmentation data supplied by the City. They will review all PMS sections not already linked and find these records in the map data. Once the record is located in the map data, the Route ID, GIS Distance To and GIS Distance From will be manually entered into the corresponding PMS record.

An example of situations where this is required will be the many unnamed cul-de-sacs. There is no electronic/automated basis to achieve a match for these, leaving this manual method as the only choice. These are many other anomalies which must be handled in the same fashion.

Our fees will be as follows:

1. Project Engineer - Kevin Shipp	$75.00 per hour
2. Technician	$60.00 per hour

ITX Stanley Inc. 7776 Pointe Parkway W. Suite 290 Phoenix AZ 85044-6026 Ph: (602) 438-8648 Fax: (602) 431-9562

EXHIBIT A

TASK 2 TRAINING

To provide additional training covering use of the PMS software, and report interpretation, four additional training days are recommended. The following will apply:

1. Fee per Training Day	$1,460.00
2. Expenses per Trip	$990.00

If the training occurs in four individual trips the total fees will be (4 x $1,460) + (4 x $990) for a maximum total of $9,800.00, plus $25,000 for additional 10 training sessions (5 PMS and 5 RIBBASED)
We are pleased to be able to provide this assistance to help the City complete this exciting project.

Please call either Kevin or me if you have any questions.

Sincerely,

ITX STANLEY INC.

James R. Hallman
Manager, Implementation Operations

JRH/dd

sacramento/61140101/correspo/maplink.doc

EXHIBIT A

ITX Stanley

September 30, 1996
61140101

CITY OF SACRAMENTO
Department of Public Works
5730 24th Street, Building 9
Sacramento, CA 95822-3699

Att: Violet Jakab, P.E.
Senior Project Engineer

Re: PMS Project - Map Link - Cul De Sacs

Dear Violet:

ITX Stanley Inc. personnel spent the following time facilitating the link for the Cul De Sacs between the PMS database and the centerline file:

Project Engineer	24 hours @ $75.00 per hour	
Technician	48 hours @ $60.00 per hour	
	Subtotal	$4680.00
Technical Recovery	15% of $4680.00	702.00
	Total	$5382.00

Upon approval of this change order the Project Budget total will increase to $286,498.00 and the above item and fees will be shown as Item 7.2

Please call if you have any questions.

Sincerely,

ITX STANLEY INC.

James R. Hallman
Manager, Implementation Operations

JRH/dd

sacramento/correspo/gislink6.doc