

**SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

233B



FROM: General Manager-Chief Engineer

SUBMITTAL DATE:
January 10, 2006

SUBJECT: Software and Hardware for a Digital Photogrammetric Workstation
Cardinal Systems

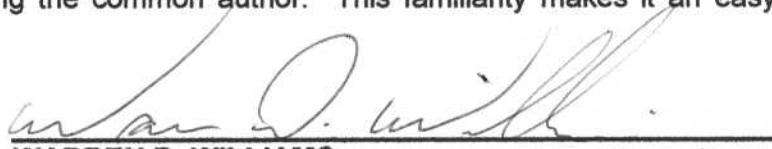
RECOMMENDED MOTION:

1. Approve the sole source software and hardware purchase from Cardinal Systems; and
2. Direct the Purchasing Department to issue a purchase order on behalf of the District.

BACKGROUND:

The District mapping staff has been utilizing photogrammetric software written by Mr. Mike Kataif, known as Cadmap on their analytical photogrammetric workstations. The original software was developed while Mr. Kataif was employed by Intergraph Corporation. There was a separation between Mr. Kataif and Intergraph a number of years ago, with the rights to Cadmap going to Intergraph. In the ensuing years Intergraph has failed to develop the software further and when asked to address problems has refused. Mr. Kataif has continued developing the software under Cardinal Systems in a very effective manner producing very production oriented mapping software. Cardinal Systems' software has a similar look and feel to it as our current software due to having the common author. This familiarity makes it an easy transition for our Photogrammetric staff.

(continued on page 2)
JM:bjp


WARREN D. WILLIAMS
 General Manager-Chief Engineer

FINANCIAL DATA	Current F.Y. District Cost:	\$37,500	In Current Year Budget:	Yes
	Current F.Y. County Cost:	\$0	Budget Adjustment:	No
	Annual Net District Cost:	\$0	For Fiscal Year:	05-06

SOURCE OF FUNDS:	40650 947120 546240 Surveying and Mapping Equipment	Positions To Be Deleted Per A-30	<input type="checkbox"/>
		Requires 4/5 Vote	<input type="checkbox"/>

C.E.O. RECOMMENDATION:

APPROVE

County Executive Office Signature 

- Dep't Recomm.: Consent
- Per Exec. Ofc.: Consent
- Policy
- Policy

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A District representative attended the American Society of Photogrammetry and Remote Sensing conference in March of 2005. While there, feedback was solicited from existing users in relation to product support and functionality. All users spoken to had positive comments. A demonstration was performed onsite to verify the Cardinal Systems product would interface seamlessly with the existing system. Aerotriangulation/model files, images and vector files all imported into the Cardinal Systems with no problems.

This is a sole source purchase since Cardinal Systems has continued to develop and enhance the software where Intergraph has not. Intergraph does have their own software package which does not compare to Cardinal Systems.

A price comparison was done with Intergraph, and the price between the two revealed the Intergraph product being within \$2,600.00 of Cardinal Systems. The time savings in labor costs by utilizing the more efficient software would soon make up the \$2,600.00 difference.

FINANCIAL:

Funds for the digital Photogrammetric Workstation are included in the District's Photogrammetry Operations budget for FY 2005-06.