



Agenda Date: 2/6/2007  
Agenda Placement: 60

## NAPA COUNTY BOARD OF SUPERVISORS Board Agenda Letter

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**TO:** Board of Supervisors  
**FROM:** Bennett Wilson - Chief Information Officer  
Information Technology Services  
**REPORT BY:** PATRICK KOWTA, GEOGRAPHIC INFORMATION OFFICER, 259-8141  
**SUBJECT:** Agreement with Mapcon Mapping, Inc. for Orthophotography Services

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### **RECOMMENDATION**

Chief Information Officer requests approval of and authorization for the Chair to sign an agreement with Mapcon Mapping, Inc. for a maximum of \$108,000 for the term February 6, 2007 through December 31, 2007 for digital orthophotography and digital terrain data.

### **EXECUTIVE SUMMARY**

Chief Information Officer requests approval of an agreement with Mapcon Mapping, Inc. to provide orthophotography services. The new orthophotos provided by this agreement will allow the County's Geographic Information System (GIS) users to continue maintaining datasets as accurately as possible. These datasets are a critical component of the CAD/RMS system, as well as a number of other applications.

Mapcon Mapping, Inc. was selected after careful review of the four responses to the County's Request for Proposal (RFP) for Orthophotography Services. This RFP was opened in early November and closed on November 30, 2006. The responses were evaluated by a team of 3 county staff with expertise in various areas of procurement, surveying and GIS. Mapcon was unanimously selected as the vendor providing the best combination of responsiveness, qualifications, reputation, reliability and value.

The funding for this project is the result of collaborative efforts that include the U.S. Geological Survey, Napa County Fire, the Napa Sanitation District and all the cities and towns of Napa County.

### **FISCAL IMPACT**

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	No

What is the revenue source?	Funding for the proposed amendment includes a U.S. Geological Survey (USGS) Grant of \$35k, contributions from the cities of approximately \$25k, a Napa County Fire contribution of \$22.5k with the remaining funds (approximately \$25k) coming from General Fund Contingencies. Staff continues to seek contributions from other sources who utilize the GIS system.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	In order to accurately maintain GIS data, the use of current orthophotography is necessary. This data is used in a variety of public safety and other environments such as CAD/RMS, disaster response and permitting.  This project also takes advantage of \$35,000 in funding from the USGS. If this project is not completed, that funding will have to be returned.
Is the general fund affected?	Yes
Future fiscal impact:	This particular project will have no impact past the current fiscal year. It will be necessary to contract for future orthophotography services every 3 to 5 years, however.
Consequences if not approved:	If this item is not approved, orthophotography will be added to the FY 08/09 budget request. At that point the existing imagery will be four years old. The USGS Cooperative Agreement will also be invalidated and the \$35,000 in funding provided will be returned.
Additional Information:	None

## **ENVIRONMENTAL IMPACT**

ENVIRONMENTAL DETERMINATION: The proposed action is not a project as defined by 14 California Code of Regulations 15378 (State CEQA Guidelines) and therefore CEQA is not applicable.

## **BACKGROUND AND DISCUSSION**

### **Orthophotography**

Orthophotographs, also referred to as orthos, are a valuable source of data for use with Geographic Information Systems (GIS) applications. Orthos are aerial photographs acquired from airborne sensors that have been processed to remove distortions caused by a variety of factors. The end result is a seamless image for the entire county that can be used as a planimetric basemap. This provides a rich source of information from which other map layers can be created such as roads, structures and field boundaries.

The County GIS currently has two countywide orthophoto layers. The first was obtained from the U.S. Geological Survey (USGS) and is black & white imagery with 1 meter resolution from 1993. The second layer is from 2002 and contains color imagery with 1 foot resolution. The data was provided by Towill, Inc. through a collaborative effort between various County departments, the Flood Control District and the U.S. Army Corps of Engineers.

There is also a color imagery layer from 2005 with 6" resolution. This layer only covers approximately 65% of the county area.

The proposed agreement would provide the County with updated color imagery with a 1 foot resolution for the entire County. It would also generate 6" resolution imagery for a corridor that roughly follows Highway 29 and includes the cities of American Canyon, Napa, Yountville and St Helena. The Napa Sanitation District and American Canyon water service areas are also included.

### **Funding**

The ITS Department had been planning to refresh the County's orthophotos during Fiscal Year 07/08. However, during the summer of 2006, the USGS offered to provide funding for a collaborative effort to produce public domain imagery for the Bay Area. As a result, USGS and the County entered into a Cooperative Agreement that was approved by the Board on September 19, 2006. This agreement specifies that USGS will provide \$35,000 to the County in exchange for updated orthophotos.

The cities of Calistoga, St Helena, Napa, American Canyon and Yountville and the Napa Sanitation District, have all pledged between \$3,000 and \$5,000 each to this project. This will cover the cost of upgrading the 1 foot resolution imagery to 6 inch resolution imagery over their jurisdictions.

Napa County Fire has agreed to contribute \$22,500 to fund the project. The department uses the GIS system on a regular basis. Finally, General Fund Contingencies will be used to fund the remaining balance of the agreement, approximately \$25,000. Staff continues to seek additional contributions from departments who use the GIS system.

### **Project Process**

On November 3, 2006, the ITS Department released an RFP for Orthophotography Services. The RFP closed on November 30, 2006 with four vendor proposals accepted. An evaluation team consisting of the Geographic Information Officer (GIO), Patrick Kowta, the Emergency Services Manager, Neal O'Haire, and a surveying specialist from Public Works, Dennis Henry, evaluated the proposals. Mapcon Mapping, Inc., from Salt Lake City, was unanimously selected as the vendor providing the best combination of qualifications, responsiveness, reputation, quality and value to the County. Mapcon was notified of their selection on January 3, 2007 and the County GIO then began negotiations to finalize the optional items in the contract, resulting in this request for approval.

### **SUPPORTING DOCUMENTS**

None

CEO Recommendation: Approve

Reviewed By: Karen Gratton