



SACOG Board of Directors

Item #08-10-6
Consent

October 16, 2008

Authorize Release of Request for Proposals for Aerial Imagery Collection

Issue: Several jurisdictions have requested that staff explore a consolidated purchase of high-resolution aerial imagery for their jurisdictions in the SACOG region. The attached scope of work will be incorporated into a Request for Proposals to solicit vendors to bid on an imagery collection project.

Recommendation: The Land Use & Housing Committee recommends that the Board approve the attached scope of work for inclusion into a Request for Proposals for Aerial Imagery Collection.

Committee Action/Discussion: For the last eight years, staff has worked with our member agencies to coordinate aerial imagery collections at regular intervals. In 2006, staff coordinated a project that collected over 1,000 square miles of imagery that was funded by local agencies, homeland security grants and U.S. Geological Survey Partnership funding. Regional high-resolution imagery collections are essential for municipal facility mapping and land use monitoring. Ultimately these imagery collections support detailed information developed by our local members and displayed on Google and other mapping websites.

The Cities of Davis, West Sacramento, Elk Grove, Folsom and Rancho Cordova, along with the County of Sacramento have asked SACOG staff to explore an updated high resolution aerial imagery purchase. Staff from these agencies have recently heard that next year's budgets may be more challenging. If so, their municipal imagery sets could grow to be four or five years old if this project does not occur.

By coordinating a regional project through SACOG, these members are eligible to receive U.S. Geological Survey local partnership funding for the collection. The regional GIS committee has requested that SACOG act as the contracting agency. The total project cost includes costs for SACOG to administer the project and to contract with a qualified aerial imagery collection project manager. A separate request will be brought to this committee and the Board for this administrative contract. Staff does not possess the necessary expertise to review the deliverables with the selected vendor.

The Request for Proposals will ask vendors to submit proposals by November 14 outlining their proposed collection plan and quality assurance/quality control plan. The attached summary describes the major components of this request. Vendors will be asked to submit a price for three options that cover a range of funding possibilities. SACOG staff will lead participating agencies in negotiations with qualified vendors beginning the week of December 1. Data collection is scheduled for late February to mid April 2009. Agencies who decide to participate in this project will need to make funding and collection area commitments by November 30.

Approved by:

Mike McKeever
Executive Director

MM:SH:ts
Attachment

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Draft Scope of Work Summary 2009 Sacramento Region High Resolution Imagery Project

Project Description

This project involves the collection of high resolution imagery (six-inch pixel resolution) for urbanized parts of the Sacramento Region. At a minimum the project area will include the cities of Elk Grove, Folsom, West Sacramento and Davis (Including the grounds extending to UC Davis Campus). Prospective bidders are asked to propose on three different options. Option 1, shown in attached Figure 1, asks for cost proposals to collect 1,033 square miles of 6-inch pixel resolution imagery. Option 2, shown in Figure 2, asks for cost proposals to collect 580 square miles of 6-inch pixel resolution imagery and 1-foot resolution for 420 square miles. Only one of these options will be selected in the contract. Option 3, shown in Figure 3 asks for cost proposals to collect 3-inch resolution imagery for 59 square miles. This option may be selected in combination with either of Option 1, Option 2 or not at all.

The intent of this project is to acquire high resolution, highly accurate orthorectified images with leaf-off tree conditions. This leaf-off tree condition is required by local agencies to allow for the visualization and digital capture of visible urban infrastructure. The collection of items such as drain inlets, manholes, road striping, etc. requires imagery meeting these specifications. Collection flight periods for leaf-off conditions in the Sacramento Region are only during the last week of February, the month of March and sometimes early April. Elevation models for the collection area will be provided. Ground control will be the responsibility of the vendor.

The regional GIS committee requests that SACOG act as the RFP and contract administrator for this project. Participants agree to a 15% project administration fee that will cover the legal, administrative and quality control responsibilities of the project.

Funding

The project is funded with local monies budgeted for high resolution imagery collections every two to three years. By “pooling” these funds into a regional collection, our member and partner agencies are eligible to receive local matching funds from the U.S. Geological Survey’s “Imagery for the Nation” project. This project provides matching funds to local collection efforts that build a “publicly accessible” national imagery set for the nation.

The cost-shared funding model for this project is still being negotiated among the regional partners. Under Option 1, staff is proposing that local governments will pay for 580 square miles of the high resolution imagery collected while the U.S. Geological Survey, the Sacramento Metropolitan Utility District and other regional partners will pay for the remaining 453 square miles. Option 2 considers that the Sacramento Metropolitan Utility District and other regional partners will not have funds to collect high resolution imagery outside of the participating urban areas. Under this option, the U.S. Geological Survey funds will be used to collect lower (1-foot) resolution imagery for these areas with the remaining funds allocated to participating members pay for the project’s administration fee. Option 3 will be funded entirely by the City of Roseville if the cost of participating in the regional project is less than those quotes they receive through their own competitive bidding process.

Project Cost

Prices for the imagery collection will be received through a competitive bidding process. Staff will release a request for proposals following project approval from the Board of Directors on October 24, 2008. At this time, staff estimates that costs will range between \$250,000 for a price estimate for Option 2 to \$490,000 for a higher price estimate under Option 3.

Project Schedule

RFP and Contract Phases:

RFP release October 24th
Proposals due November 14th
Contract signed December 12th

Image Capture and Delivery Phases:

Leaf-off capture window approximately February 23, 2009 to April 15, 2009
Vendor processing of images March through August 2009
SACOG Project Manager Contractor Reviewing Deliverables June through August 2009
Vendors and SACOG Resolving any quality issues September 2009
Project completion and image delivery to local agencies September 2009

Figure 2: Option 2 for 2009 Sacramento Region High Resolution Imagery

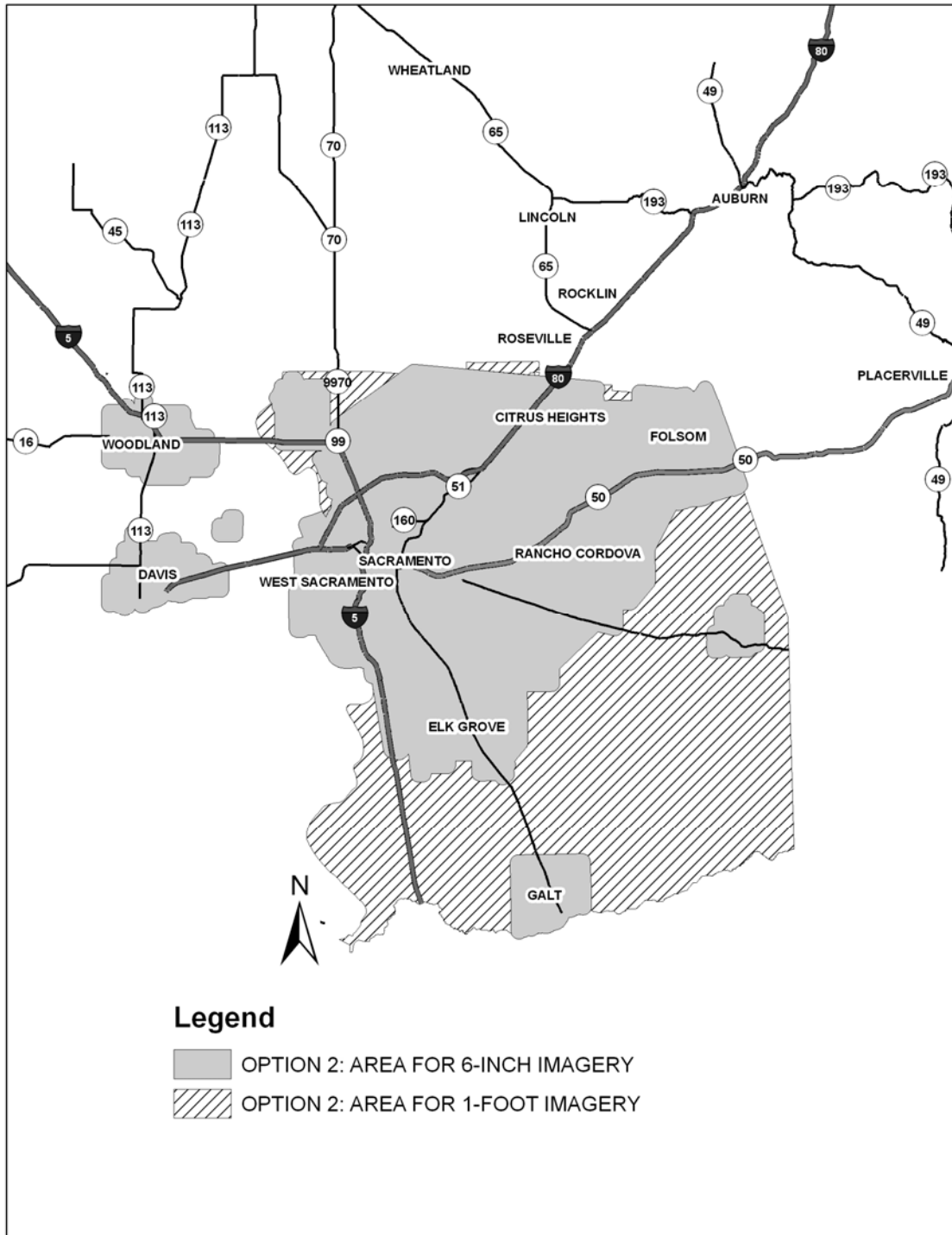


Figure 3: Option 3 for 2009 Sacramento Region High Resolution Imagery

