

May 4, 2009

Subject: Request for Proposal, Ortho-Photography for the City of Mission Viejo

Project Scope

The City of Mission Viejo wishes to obtain true 3-inch pixel (0.25-foot) ground resolution color digital ortho-photography. In addition, the City desires to obtain a Digital Terrain Model (DTM) and DTM-generated 2-foot contours as a digital deliverable. Presently the City has 4-inch pixel black & white ortho-photography from 1997 with 2-foot contours, and in 2005 the City obtained 3-inch pixel resolution color ortho-photography that was rectified to the 1997 contours. The City currently uses ESRI ArcGIS and AutoCAD software. In addition, the City also uses Digital Map Products CityGIS. The City is approximately 17 square miles. Upon request, the City can provide shape files of the City boundary and sample electronic files of our 2-foot contours, as well as our existing index map.

The project limits of the 3-inch pixel ortho-photography and 2-foot contours will be the City limits plus a 500-foot buffer. In addition, the City desires to obtain imagery suitable to develop a rectangular City wall map at a scale of 1"=700'. Due to the geometry of the City, it will be necessary to provide imagery well beyond the 500-foot buffer particularly at the northern and southern ends of the City in order to develop a suitable wall map. Therefore, imagery in these areas may be lower resolution.

The City of Mission Viejo is also exploring the possibility of partnering on this project with the City of San Clemente. What this means is that it is anticipated that San Clemente will be sending out similar RFPs concurrently with the City of Mission Viejo. The consultant may then propose discounts (see cost proposal section) if San Clemente were to enter into a contract with the consultant at the same time, allowing work efforts, flights, etc., to be coordinated for maximum cost savings.

Project Requirements/Specifications

The project shall be prepared in accordance with specifications established by the American Society of Photogrammetry and Remote Sensing and meet and/or exceed National Mapping Accuracy Standards. The consultant shall clearly describe the procedures, parameters, and standards that will be utilized to ensure the final product meets or exceeds accuracy requirements for true 3-inch pixel ground resolution and 2-foot contours. The consultant shall clearly describe the horizontal and vertical accuracy of the deliverables. The consultant may propose as an option cost-saving techniques or options that may result in lower accuracy or resolution. However, the impact of these options on the final product shall be clearly defined.

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All ortho-photography will be delivered in GEO_TIF and MrSID image file formats with associated World files. The images will be mosaic'd and seamless in appearance. Adjustments will be performed to balance brightness and contrast of the imagery over the entire project area (this includes the imagery for the wall map). The consultant will be required to submit for the City's approval a resultant sample to get acceptance of the proposed final product appearance. The ortho-rectified TIF files will be tiled for delivery according to an index, tiling scheme, size, and file naming convention provided by the City. The tiled files will be edge matched and seamless in appearance. The MrSID compression will be conducted at a minimum 20:1 ratio to create a singular file consisting of all seamless ortho-rectified tiles.

Datum

The City's existing GIS data is in the following Datum:

Vertical-County of Orange Vertical Datum, 29/1995, feet.

Horizontal-CCS 83, Zone 6, 1983 North American Datum, feet, 1995.35 EPOCH, Per County of Orange Surveyor.

However, the City was recently notified by the County of Orange of the following changes to the deliverables of the City's parcel landbase:

The NGS recently completed a national readjustment of NAD 83 which is being referred to as NAD83 (NSRS2007) or simply NAD83 (2007). We readjusted the Landbase to the NAD 83(NSRS2007), CA State Plane Zone VI, OCS 2007.00 adjustment. As a result, all future coordinate values of the parcel corners will be collected to match this adjustment. Any data and/or layers you currently have that is registered to the previous Landbase needs to move 2.18' N 39 W to conform to the new adjustment.

The consultant shall describe the proposed Datum to be used for the project and any implications to future and existing data.

Deliverables

1. Orthorectified image files in GEO_TIF file format with index map.
2. MrSID compressed and mosaic'd imagery.
3. 2-foot contour files tiled to match ortho-photography in DWG format and an overall contour file. These files shall be formatted similar to the City's existing 2-foot contour file tiles (i.e., different line weights for index contours, elevation text visible when used in ArcGIS, etc.).
4. Wall map imagery.
5. All other electronic files that may be of use to the City in the future or can be used to develop derivative products, additional elevation models, etc.

Proposal Format

The consultant's proposal shall be prepared in a "two-envelope" format. The first envelope will contain the technical proposal, which shall include the Scope of Work, deliverables, experience with similar projects with references, and proposed schedule. The proposal shall also contain any information or items the consultant believes the City may have overlooked, missed, or omitted, and other information that the consultant feels is necessary to ensure a successful project.

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The second sealed envelope will contain the cost proposal which will include:

1. The cost breakdown for the project. This shall include separate prices for the 3-inch ortho-photography and the 2-foot elevation contours. Please note that due to budget constraints the City may elect to move forward with only the ortho-photography. Therefore the consultant shall clearly detail any additional costs if only the ortho-photography is selected.
2. Costs associated with any proposed alternatives, such as different resolutions, etc.
3. Any proposed discounts if the project is partnered with the City of San Clemente. This shall include any restrictions that must be met by the City to obtain the discount.

Proposals shall be submitted no later than Thursday, May 21, 2009, at 5:00 P.M.

Proposals shall be addressed to:

Richard Schlesinger, P.E.
City Engineer
City of Mission Viejo
200 Civic Center
Mission Viejo, CA 92691

Proposals may be submitted electronically to rschlesinger@cityofmissionviejo.org.

The proposal shall be signed by an official authorized to bind the firm and shall be valid for ninety (90) days. The City anticipates taking a contract to City Council for approval on June 15, 2009.

All materials prepared under the contract become the sole property of the City of Mission Viejo and may not be reproduced without permission by the City.

The City reserves the right to reject any or all proposals or to request and obtain, from one or more of the consulting firms, supplementary information as may be necessary for City staff to analyze the proposal pursuant to the consultant selection criteria.

The consultant, by submitting a response to this RFP, waives all right to protest or seek any legal remedies whatsoever regarding any aspect of this RFP.

The selected consultant will be required to enter into the City's standard consultant contract which includes insurance requirements.

If you have any further questions, please do not hesitate to contact me at (949) 470-3079.

Sincerely,

Richard Schlesinger, P.E.
City Engineer