



# CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA 57701-5035

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## Community Resources Department

300 Sixth Street

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## MEMORANDUM

TO: Public Works Committee

FROM: Don Jarvinen, GIS Coordinator

DATE: December 2, 2014

RE: Request for Proposals for Aerial Photography

Staff requests City Council authorization to release a Request for Proposals for aerial photography to be collected during the spring of 2015. The majority of the \$200,000 budget for the project will come from the Rapid City Area Metropolitan Organization (RCMPO) along with an 18% match from the GIS Division and Public Works. The RFP is expected to be released as soon as it is approved by the RCMPO in mid-December.

The previous Rapid City area photography was collected in the spring of 2012. The base model for the photo processing was developed in 2000 and was updated in 2008. This model is used to create elevation contours and to correct the displacement of the photo pixels to true locations. The 2000 model was based on the vertical datum of 1929. The new model will be developed using LIDAR, a much more accurate process, and will be based on the new vertical datum of 1988. This will bring our data in line with the vertical datum used by the federal and South Dakota state governments. One important example of data using the new datum is the digital FEMA flood plain data adopted by the City in 2013.

It is expected that the photography will be collected during April or May of 2015 when conditions are optimal for high quality images. During these months, the sun angle, leaf-off conditions of the trees, and lack of snow cover provide the best combination of conditions for our area.



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