



CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA

57701-5035

Community Development Department

300 Sixth Street

Patsy Horton, Division Manager
Long Range Planning Division
city web: www.rcgov.org

Phone: 605-394-4120
Fax: 605-394-6636
e-mail: patsy.horton@rcgov.org

MEMORANDUM

TO: Legal and Finance Committee

FROM: Patsy Horton, Division Manager
Long Range Planning

DATE: January 3, 2018

RE: 18TP001 – Authorize the Mayor and Finance Officer to sign the Professional Services Agreement with Fugro Geospatial Inc. for Digital GIS Base Map Development Services in an amount not to exceed \$119,383.23

Fugro Geospatial, Inc. was selected to complete the Digital GIS Base Map Development Services project, with the aerial photography to be collected during the spring of 2018. The majority of the \$120,000 budget for the project will come from the Rapid City Area Metropolitan Organization (RCMPO) along with an 18% match from the Public Works GIS Division. The GIS Division is also funding additional photography/data collection for work areas outside the MPO Boundary.

The previous Rapid City area photography was collected in the spring of 2015. 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 2015 model was developed using LIDAR, a much more accurate process, and based on the 1988 vertical datum, which brought our data in line with the vertical datum used by the Federal and South Dakota state governments. One important example of the City's data using the 1988 datum data is the digital FEMA flood plain data adopted by the City in 2013.

The photography will be collected during April or May of 2018 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.



EQUAL HOUSING
OPPORTUNITY

EQUAL OPPORTUNITY EMPLOYER