



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Department Source: Information Technology

To: City Council

From: City Manager & Staff

Council Meeting Date: April 6, 2020

Re: Appropriate funds for the purchase of LiDAR and imagery data

Executive Summary

Staff is requesting an appropriation of \$48,870.00 from the IT Retained Earnings account to the IT GIS Miscellaneous Contractual Services account to cover purchases for LiDAR and aerial imagery data.

Discussion

The transfer of these funds will allow IT to purchase the City's pre-agreed-upon LiDAR (Light Detection and Ranging) and aerial imagery data to be used for our Maps and Apps services for internal and external use. This agreement was made in early 2019 between the City and the Boone County Assessor's office; the vendor, Surdex, captured new imagery in March 2019, and new LiDAR in November 2019. The new LiDAR data from 2019 provides updated topographic information for areas of the city that have changed since 2015 when the previous LiDAR collection took place; the imagery provides updated orthophotos, which have not been updated since 2017. There have been many new buildings constructed that need to have structure height added. LiDAR would provide new topographic information for stormwater planning and construction, snow plowing route prioritization, FEMA flood map updates, vegetation encroachment on electric lines, and park and trail management. New or updated products include Digital Surface Models, Digital Elevation Models, 2' contours, and 3D buildings.

The data is owned by Boone County; the deliverables to the City's GIS office include the entire county's coverage area, and are "Viewable by All" via the City-County Consortium agreements. The City is allowed to use the data internally for maps and applications, but may not distribute or sell the data. The total cost for the Surdex data is approximately \$120,000; City and County departments agreed that the City would pay for only our portion of the data, using the 'Metro Planning Area' boundary, which includes the City plus the anticipated growth area outside current City Limits.

Money to pay for this data was set aside each year in the 2016, 2017, 2018, and 2019 IT/GIS budgets, but because the data could not be completely captured until late 2019 (into the FY20 budget cycle), the money appropriated via Ord. 23815 (same amount) was not used/paid as anticipated.

Fiscal Impact

Short-Term Impact: \$48,870.00

Long-Term Impact: \$0



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Strategic & Comprehensive Plan Impact

Strategic Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Secondary, Tertiary Impact: Tertiary

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Land Use & Growth Management, Tertiary Impact: Environmental Management

Legislative History

Date	Action
N/A	None

Suggested Council Action

Staff recommends the Council approve this appropriation.