



CITY OF MOUNTAIN VIEW

MEMORANDUM

Information Technology Department

DATE: May 19, 2015

TO: City Council

FROM: Steve Rodriguez, Information Technology Manager
Roger Jensen, CIO/Information Technology Director

VIA: Daniel H. Rich, City Manager

SUBJECT: Information Technology Project Request for Fiscal Year 2015-16

PURPOSE

This memo transmits the capital improvement project (CIP) requests for the Information Technology (IT) Department for Fiscal Year 2015-16.

BACKGROUND

IT CIPs are identified as a single project, but will generally consist of subprojects. Proposals for Fiscal Year 2015-16 total \$505,000 and are as follows:

New Projects

Monitoring system for Police Department (PD) computer and network systems (\$50,000) – The CAD/RMS project included a significant increase in the number of servers and other network equipment located in the Police/Fire Administration Building. This project will pay for the additional licenses needed to extend the current server monitoring applications to include these new servers where possible and purchase new software products where extending the City software is not possible or the best solution. When complete, this solution will offer the same level of administrative control over all public safety servers to local PD staff who are responsible for these systems.

GIS support for consulting and outsourcing services (\$50,000) – With the Geographic Information System (GIS) now in full production, the IT Department will continue to work with the various departments to develop applications for both internal use and for

the public to view, consume, and manipulate City-owned data. These funds will cover the development of approximately 10 new applications.

IT infrastructure upgrades (\$75,000)—The IT Department will begin planning the replacement of the core network infrastructure this calendar year and begin the project early next calendar year, but within the 2015-16 fiscal year. This funding will be used to incorporate newer technologies that may not be covered in the equipment replacement fund as well as upgrade equipment that is no longer available due to being retired from service.

Load-balancing/high-availability system to support redundant systems (\$100,000)—As the Virtual Desktop Infrastructure (VDI) project moves into production, one of the concerns is that in the event of a failure of a key component of the system, all VDI terminals will become unavailable. This project will implement a load-balancing system that will allow the City to configure multiple internal systems in a high-availability configuration which can withstand the failure of key equipment and keep operations moving. The load-balancing/high-availability architecture will support multiple internal systems, including the VDI infrastructure, the e-mail servers, web services, and any other high-priority system.

Server memory upgrades (\$50,000)—As the City's core virtual server environment has evolved and grown, the IT Department has determined that we are near the memory capacity of the original server environment. This upgrade will double the memory capacity of the server environment and ensure we are able to keep growing the system without negatively affecting the existing environment.

GIS upgrades to support water and sewer modeling (\$100,000)—This project will provide funding to outsource the updating of all utility basemap information currently in the GIS to 2015 data. This will be in support of the upcoming public works project to re-create an updated and functioning electronic water model and will also provide the GIS with the most up-to-date information which is used by multiple departments and divisions throughout the City. This will include stormwater, reclaimed water, and potable water systems.

Storage for public-facing VDI systems (\$30,000)—The storage medium (Storage Area Network, SAN) currently in use for the public-facing virtual desktops in the City (Library, Teen Center, and Senior Center) is at maximum capacity and end of life and needs to be replaced. This upgrade will add the capacity needed to complete the Teen Center computer lab and upgrade the system to have the capacity to handle additional public-facing clients such as the information kiosks located throughout the City and additional capacity in the Library.

Amended Projects

Additional funding for Council Chambers voting system upgrade (\$50,000) – This funding request is to add funding to the Fiscal Year 2014-15 request for the City Council Chambers audio/visual upgrade. After reviewing the quotes received from the last upgrade, the amount of resources available as part of the equipment replacement program, and the funding from last year's CIP request, we have determined that we are likely to need additional funding to design a system that includes all the current functionality as well as incorporates the additional technology requested to be included in the newly designed system.

CONCLUSION

A comprehensive review of all current and scheduled projects was performed. These projects have been identified to improve the City's IT systems capacity, reliability, and functionality.

Please let us know if you need any additional information or have any questions.

ST-RJ/JB/5/IT
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