



Monterey County

Board Order

168 West Alisal Street,
1st Floor
Salinas, CA 93901
831.755.5066

Upon motion of Supervisor Salinas, seconded by Supervisor Potter and carried by those members present, the Board of Supervisors hereby:

Received and accepted a report of the proposed Information Technology capital projects, which was received and accepted by the Capital Improvement Committee on April 7, 2014, and received and accepted by the Budget Committee on April 30, 2014.

PASSED AND ADOPTED on this 24th day of June 2014, by the following vote, to wit:

AYES: Supervisors Armenta, Calcagno, Salinas, Parker and Potter
NOES: None
ABSENT: None

I, Gail T. Borkowski, Clerk of the Board of Supervisors of the County of Monterey, State of California, hereby certify that the foregoing is a true copy of an original order of said Board of Supervisors duly made and entered in the minutes thereof of Minute Book 77 for the meeting on June 24, 2014.

Dated: June 30, 2014
File Number: 14-676

Gail T. Borkowski, Clerk of the Board of Supervisors
County of Monterey, State of California

By Denise Hancock
Deputy



Monterey County

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Board Report

Legistar File Number: 14-676

Agenda Date: June 24, 2014

Introduced: 6/12/2014

Current Status: Agenda Ready

Version: 1

Matter Type: General Agenda Item

Receive and accept a report of the proposed Information Technology capital projects, which was received and accepted by the Capital Improvement Committee on April 7, 2014, and received and accepted by the Budget Committee on April 30, 2014.

RECOMMENDATIONS:

It is recommended that the Board of Supervisors:

Receive and accept a report of the proposed Information Technology capital projects, which was received and accepted by the Capital Improvement Committee on April 7, 2014, and received and accepted by the Budget Committee on April 30, 2014.

DISCUSSION/SUMMARY:

On June 3, 2013, the Resource Management Agency - Public Works (RMA-PW) notified the Capital Improvement Committee of the intent to provide a complete picture of the infrastructure needs of the County with the common goal of presenting the findings for review, consideration, and prioritization. As part of the collective efforts, the Information Technology Department (ITD) has conducted assessment of the County-wide information technology (IT) related infrastructure in dire need of an upgrade and/or replacement.

The County of Monterey has not invested in IT related infrastructure in approximately fourteen years, and the replacement and upgrades have been on an emergency basis for a number of years. Unfortunately, within the last fourteen years, the IT needs of the County have grown exponentially. For example, the land line focused digital phone system has grown from an eight private branch exchange system with two separate nodes to over forty separate line interface modules with a network based voicemail system, Internet Protocol (IP) integration, and faxing capabilities. For another, the County data network reliance has increased significantly with advanced Internet technology, reliability, and expanded communications options. In addition, ITD has taken an enterprise approach to software use that meets the collective need of the County departments where applicable, such as SharePoint. The radio communications network originally consisted of a handful of microwaves and connectivity through leased circuits and today provides primary and redundant support for data networks, County phone system, and public safety communications middle mile and last mile support.

The legacy equipment across the enterprise phone, network, and radio systems are at the end of their useful life, and the proposed upgrades are required for continued reliability, performance, and security. The IT needs of the County departments will continue to increase, and the use of multimedia and unified communications over IP, such as video and telephone, will continue to expand. It is critical to have a reliable network infrastructure, and to that end the existing

infrastructure cannot support the anticipated convergence of the IT disciplines to include data, voice, video, and radio. The County departments need diversity in their technology options such as hosted solutions, virtualization, and remote access options, all of which increase the need for data security and the latest forensic software, while providing flexibility in today's mobile environment. The recommended IT upgrades will continue to factor in enterprise solutions to meet our collective needs for automation while factoring in data security which is essential for each County department.

OTHER AGENCY INVOLVEMENT:

The Director of Information Technology has presented the list of critical capital replacement for IT related projects with the estimated yearly impact to the IT Governance Committee and to the Department Heads. The IT Governance Committee and Department Heads have reviewed the critical replacement and upgrade list (Attachment I) and concur with the recommendation. The Capital Improvement Committee received and accepted the report at the April 7, 2014 meeting, and the Budget Committee received and accepted the report on April 30, 2014.

FINANCING:

The IT Director proposed leasing the equipment wherever feasible and cost effective in order to spread the cost of replacement out over the life of the equipment or software. The leasing options were presented to the IT Governance Committee and the Department Heads who reviewed the financing options and concur with the leasing option as well. The FY 2014-2015 Information Technology Budget reflects allocated leasing and purchase costs to the departments. Planned future year expenditures will be included in future budget cycles.

Prepared by: Kathryn A. Wells, Finance Manager II, 796-1490

Approved by:

Kathryn A. Wells
FOR DIANAH NEFF

Dianah Neff, Director of Information Technology

Dated: June 12, 2014

Attachment: ITD Capital Replacement Summary by FY & Project

ATTACHMENT I - ITD Capital Replacement Summary by FY

FY	Project Category	Project Needs - Impact of Not Doing	Project Benefits	Technical Description	Total
2014-15	Active Directory	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	Ensures continued secure access to county data and continued maintenance/support for issues.	2012 User Client Access License (CALs) (Microsoft Core CAL) & Software (5000 Users) Impact SharePoint & Basic Exchange Access as well as EDS purview. Allows access to all county data resources within county & authorized outside agencies.	\$ 86,131
	Call Accounting System Upgrade	Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system or the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support.	Continued call accounting, archiving, and tracking capabilities.	Pinnacle call accounting server for application & reports upgrade -tracks all calls from county phone system. Provided billing for phone calls, equipment, and labor.	\$ 40,000
	Email	Retrieval of archived email is not efficient. Hinders response times for departments/court requests, no additional features/functionality is allowed currently. Support will end for this product.	Hosting the emails within the county is secure, reduces the recurring cost, and managed directly by county. Retain the ability to properly archive and retrieve email as needed in a timely manner.	Email archiving & forensic toolkit to allow for retrieval of email for legal inquiries.	\$ 130,000
	Intrusion Detection System	Inability to detect computer attacks or nefarious activity across the network. Increased chance of department data theft being undetected and unstopped.	Allows Security to contain attack before department data is stolen. Another component of the Intrusion Detection System - Security "cameras" on the network, able to detect network based computer attacks and alert Security.	Span Port Director.	\$ 47,532
	ITD Data Center Upgrades	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Allows Security to contain attack before department data is stolen. Intrusion Detection System - Security "cameras" on the network, able to detect network-based computer attacks and alert Security.	Core Intrusion Detection Sensors replacement.	\$ 30,000
	Microwave Link Replacements	Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications. One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	Multiple Links: Quad, Constellation system to Moffett, CES, Admin bldg Multiple Links: Seaside Water Tank, Lower Tower, ITD Stratex link	\$ 243,540 \$ 133,200 \$ 58,489
	Network Infrastructure Upgrade	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	Replacement of network equipment at external sites.	\$ 66,720

ATTACHMENT I - ITD Capital Replacement Summary by FY

FY	Project Category	Project Needs - Impact of Not Doing	Project Benefits	Technical Description	Total
Phone System - Infrastructure Upgrade		Cannot utilize the network for phone system related use such as calls, video conferencing and reduced cost phone usage.	Reliability and continued maintenance/support from vendor. Reduced long distance fees.	Software & Hardware Session border controller for Session Initiation Protocol (SIP) services outside the County - Video conferencing, IP phones, reduced cost for phone calls outside of our network.	\$ 35,000
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Reliability and continued maintenance/support from vendor.	Replace telephone system PBX cabinets at County sites.	\$ 80,122
	Server Virtualization	Hardware and hosting costs will continue to increase due to the need to replace and upgrade. Software is currently at end of life without support.	Reduced nothing costs with ITD with the ability to have disaster recovery.	Licensing & implementation of server virtualization. Private cloud.	\$ 50,000
	Sharepoint	Necessary for continued use of Sharepoint by Depts.	Ability to utilize the full Sharpoint features/functionality for document sharing, unified tool for collecting dept procedures, updates, information sharing and communications within the dept.	Standard Edition Option - licensing cost.	\$ 120,000
Tivoli Storage Manager		Failure of existing equipment would prohibit archiving critical and confidential data that will need to be accessed. The duration of backing up critical information will prohibit all data to be archived. There is risk of loss since redundant data will not exist.	The recommended upgrade will ensure redundancy, reliability, and reduce off site storage costs of critical confidential data.	LTO - 5 Tapes & Drives for the back up of all county's data (3584).	
		Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system of the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support.	Continued reliability and maintenance/support by vendor.	CallXpress hardware and software, upgrade system to N+1 redundancy.	\$ 25,000
	Voicemail System Upgrade				\$ 40,000
2014-15 Sum					\$ 1,185,734
2015-16	Active Directory	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	Ensures continued secure access to county data and continued maintenance/support for issues.	2012 User Client Access License (CALs) (Microsoft Core CAL) & Software (5000 Users) Impact SharePoint & Basic Exchange Access as well as EDS purview. Allows access to all county data resources within county & authorized outside agencies.	\$ 86,131
	Email	Retrieval of archived email is not efficient. Hinders response times for departments/court requests, no additional features/functionality is allowed currently. Support will end for this product.	Hosting the emails within the county is secure, reduces the recurring cost, and managed directly by county. Retain the ability to properly archive and retrieve email as needed in a timely manner.	Hosted - On site Option - Office365 (3 year cost for 5000 users/\$6 per user may include Standard SharePoint & Lync).	\$ 950,000
	Intrusion Detection System	Inability to detect computer attacks or nefarious activity across the network. Increased chance of department data theft being undetected and unstopped.	Allows Security to contain attack before department data is stolen.	Remote field intrusion detection sensor replacement. Core Intrusion Detection Sensors replacement.	\$ 24,000 \$ 47,532

ATTACHMENT I - ITD Capital Replacement Summary by FY

FY	Project Category	Project Needs - Impact of Not Doing	Project Benefits	Technical description	Total
	ITD Data Center Upgrades	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	Replacement of certain network equipment housed in Data Center.	\$ 177,480
	Microwave Link Replacements	Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications. One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Ensure reliability and continued maintenance/support.	Multiple Links: Quad, Constellation system to Moffett, CES, Admin bldg Multiple Links: Seaside Water Tank, Lower Tower, ITD Stratesx link	\$ 133,200 \$ 58,489
	Network Infrastructure Upgrade	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which	Replacement of certain network equipment housed in Data Center. Replacement of network equipment at external sites.	\$ 92,124 \$ 435,264
	Phone Set Upgrade	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	Install VoIP telephones in preparation for handset replacement at all county facilities in the coming years - Phase I - test, troubleshoot, develop implementation plan.	\$ 9,312
	Phone System - Infrastructure Upgrade	Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.	Replace telephone system PBX cabinets at County sites. Phase II	Replace telephone system PBX cabinets at County sites. Phase I	\$ 80,122 \$ 80,122
	RightFax Software Upgrade	Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system of the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support. Lapses in maintenance/support subscription will require retroactive payment to reinstate service by vendor.	Continued reliability and maintenance/support by vendor.	VoIP performance management software application - this is an intermediary step to VoIP.	\$ 50,000
		Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system of the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support.	Continued reliability and maintenance/support by vendor.	RightFax software applications upgrade - allows faxing capability from pc. Software upgrades are necessary for continued support, maintenance and to ensure operability with upgraded operating systems on the server.	\$ 15,000

ATTACHMENT I - ITD Capital Replacement Summary by FY

FY	Project Category	Project Needs / Impact of Not Doing	Project Benefits	Technical description	Total
	Test Network	Without a test network, ITD cannot deploy hardware, software, and proprietary applications safely. This is essential for any IT environment with the critical data to properly support all county IT needs.	All equipment, software, firmware, software service update and proprietary tools can be tested and troubleshooting can be properly performed prior to deployment in live instance.	Hardware and software necessary for the Test Network. Test networks are industry standard to enable ITD to properly test hardware, software, operating systems, service pack upgrades, firmware in a test environment before deploying in a live environment.	\$ 50,000
2015-16				2015-16 Sum	\$ 2,288,776
2016-17	Active Directory	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	Ensures continued secure access to county data and continued maintenance/support for issues.	(2012 User Client Access License (CAL) (Microsoft Core CAL) & Software (5000 Users) Impact SharePoint & Basic Exchange Access as well as EDS purview. Allows access to all county data resources within county & authorized outside agencies.	\$ 86,131
	Intrusion Detection System	Inability to detect computer attacks or nefarious activity across the network. Increased chance of department data theft being undetected and unstopped.	Allows Security to contain attack before department data is stolen.	Core Instruction Detection Sensors replacement.	\$ 47,532
	ITD Data Center upgrades	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	Replacement of certain network equipment housed in Data Center.	
	Microwave Link Replacements	Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Ensure reliability and continued maintenance/support.	Multiple Links: Quad, Constellation, system to Moffett, CES, Admin bidg Multiple Links: Seaside Water Tank, Lower Tower, ITD StrateX link Multiple Links: Laurel Yd. 911	\$ 185,916
	Network Infrastructure Upgrade	One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which	Replacement of certain network equipment housed in Data Center. Replacement of network equipment at external sites.	\$ 133,200
	Phone Set Upgrade	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	Install VoIP telephones in preparation for handset replacement at all county facilities in the coming years - Phase I - test, troubleshoot, develop implementation plan.	\$ 558,444
	Phone System - Infrastructure Upgrade	Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Reliability and continued maintenance/support from vendor.	Replace telephone system PBX cabinets at County sites. Phase II Replace telephone system PBX cabinets at County sites Replace telephone system PBX cabinets at County sites. Phase I	\$ 9,312 \$ 80,122 \$ 80,122 \$ 80,122

ATTACHMENT I - ITD Capital Replacement Summary by FY

FY	Project Category	Project Needs - Impact of Not Doing	Project Benefits	Technical description	Total
	Phone System Software Upgrade	Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system of the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support.	Continued support and maintenance.	Phone System Software upgrade.	\$ 25,000
2016-17	2017-18				\$ 1,442,523
	Active Directory	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	Ensures continued secure access to county data and continued maintenance/support for issues.	2012 User Client Access License (CALs) (Microsoft Core CAL) & Software (5000 Users) Impact SharePoint & Basic Exchange Access as well as EDS purview. Allows access to all county data resources within county & authorized outside agencies.	\$ 86,131
	Call Accounting System Upgrade	Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system of the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support.	Continued call accounting, archiving, and tracking capabilities.	Call accounting application tracks all calls from county phone system.	\$ 40,000
	Intrusion Detection System	Inability to detect computer attacks or nefarious activity across the network. Increased chance of department data theft being undetected and unstopped.	Allows Security to contain attack before department data is stolen.	Core Intrusion Detection Sensors replacement.	\$ 47,532
	ITD Data Center Upgrades	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	Replacement of certain network equipment housed in Data Center.	
	Microwave Link Replacements	Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Ensure reliability and continued maintenance/support.	Multiple Links: Quad, Constellation system to Maffett, CES, Admin bldg Multiple Links: Marina Airport Multiple Links: Seaside Water Tank, Lower Tower, ITD Stratex link Multiple Links: Laurel Vd, 911	\$ 185,916 \$ 133,200 \$ 3,005 \$ 58,489 \$ 6,009
	Network Infrastructure Upgrade	One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which	Replacement of certain network equipment housed in Data Center. Replacement of network equipment at external sites.	\$ 92,124 \$ 558,444
	Phone Set Upgrade	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and functionality.	Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	Install VoIP telephones in preparation for handset replacement at all county facilities in the coming years - Phase i - test, troubleshoot, develop implementation plan.	\$ 9,312

ATTACHMENT I - ITD Capital Replacement Summary by FY

FY	Project Category	Project Needs- Impact of Not Doing Performance phone components	Project Benefits	Technical Description	Total
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	continued interoperability with the phone system, and reliability.	Telephone set replacement.	\$ 69,804
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.	Reliability and continued maintenance/support from vendor.	Replace telephone system PBX cabinets at County sites. Phase I Replace telephone system PBX cabinets at County sites. Phase II Replace telephone system PBX cabinets at County sites. Phase III	\$ 80,122 \$ 80,122 \$ 80,122
2017-18				2017-18 Sum: \$ 1,530,332	
2018-19	Active Directory	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	Ensures continued secure access to county data and continued maintenance/support for issues.	Impact SharePoint & Basic Exchange. Access as well as EDS purview. Allows access to all county data resources within county & authorized outside agencies.	\$ 86,131
	Intrusion Detection System	Inability to detect computer attacks or nefarious activity across the network. Increased chance of department data theft being undetected and unstopped.	Allows Security to contain attack before department data is stolen.	Core Intrusion Detection Sensors replacement.	\$ 47,532
	ITD Data Center Upgrades	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	Replacement of certain network equipment housed in Data Center.	\$ 86,131
	Microwave Link Replacements	Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Ensure reliability and continued maintenance/support.	Multiple Links: Admin Bldg. Quad, Constellation system to Moffett, CES, Admin bldg Multiple Links: Marina Airport Multiple Links: Seaside Water Tank, Lower Tower, ITD StrateX link Multiple Links: Laurel Yd, 911	\$ 25,038 \$ 133,200 \$ 3,005 \$ 58,489 \$ 6,009
	Network Infrastructure Upgrade	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which	Replacement of certain network equipment housed in Data Center. Replacement of network equipment at external sites.	\$ 92,124 \$ 558,444
	Phone Set Upgrade	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and	Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	Install VoIP telephones in preparation for handset replacement at all county facilities in the coming years - Phase I - test, troubleshoot, develop implementation plan.	\$ 9,312

ATTACHMENT 1 - ITD Capital Replacement Summary by FY

RF	Project Category	Project Needs: Impact of Not Doing Performance prime experience:	Project Benefits continued interoperability with the phone system, and reliability.	Equipment under maintenance/support,	Technical description	Total		
Phone System - Infrastructure Upgrade		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Reliability and continued maintenance/support from vendor.	Replace telephone system PBX cabinets at County sites. Phase I	\$ 139,608			
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.		Replace telephone system PBX cabinets at County sites. Phase II	\$ 80,122			
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.		Replace telephone system PBX cabinets at County sites. Phase III	\$ 80,122			
2018-19		Sum \$ 1,585,174				\$ 1,585,174		
2019-20		Support will not be available during this time. This would impose a critical security risk to county data access which is essential.		Ensures continued secure access to county data and continued maintenance/support for issues.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 43,066		
ITD Data Center Upgrades		Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.		Replacement of certain network equipment housed in Data Center.				
Microwave Link Replacements		End of life - no support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to support residents.		Multiple Links: MEAMS - Tri County, Creekbridge	\$ 34,500			
Network Infrastructure Upgrade		Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.		Multiple Links: Admin Bldg. King City, Moffett, Bryant Canyon	\$ 25,038 \$ 75,114			
		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.		Multiple Links: Quad, Constellation system to Moffett, CES, Admin bldg. Marina Airport Seaside Water Tank, Lower Tower, ITD Stratex link Laurel Yd, 911	\$ 66,600 \$ 3,005 \$ 29,245 \$ 6,009			
		Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.		All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	Replacement of network equipment at external sites.	\$ 491,724		

ATTACHMENT 1 - ITD Capital Replacement Summary by FY

FY	Project Category	Project Needs- Impact of Not Doing	Project Benefits	Technical Description	Total
	Phone Set Upgrade	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	Install VoIP telephones in preparation for handset replacement at all county facilities in the coming years. Phase I - test, troubleshoot, develop implementation plan.	\$ 9,312
	Phone System - Infrastructure Upgrade	Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	Telephone set replacement.	\$ 139,608
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Reliability and continued maintenance/support from vendor.	Replace telephone system PBX cabinets at County sites. Phase I	\$ 40,061
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.		Replace telephone system PBX cabinets at County sites. Phase II	\$ 80,122
				Replace telephone system PBX cabinets at County sites. Phase III	\$ 80,122
2019-20	Sum	\$ 1,161,584			
2020-21	ITD Data Center Upgrades	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	Replacement of certain network equipment housed in Data Center.	\$ 8,436
	Microwave Link Replacements	End of life - no support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to support residents.		Multiple Links: MBAMS - Tri County, Creekbridge	\$ 38,058
		Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Ensure reliability and continued maintenance/support.	Multiple Links: Admin Bldg.	\$ 25,038
		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.		Multiple Links: King City, Moffett, Bryant Canyon	\$ 75,114
				Multiple Links: Marina Airport	\$ 3,005
				Multiple Links: Laurel Rd, 911	\$ 6,009
All	Critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 123,180			
2020-21	Sum	\$ 538,631			

ATTACHMENT I - ITD Capital Replacement Summary by FY

FY	Project Category	Project Needs - Impact of Not Doing	Project Benefits	Technical description	Total
2021-22		End of life - no support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to		Multiple Links: MEAAMS - Tri County, Creekbridge Multiple Links: MBAMS - Tri County, Creekbridge	\$ 33,491
	Microwave Link Replacements	Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Ensure reliability and continued maintenance/support.	Multiple Links: King City, Moffett, Bryant Canyon Multiple Links: Admin Bldg.	\$ 4,567
		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.		Multiple Links: King City, Moffett, Bryant Canyon Multiple Links: Marina Airport	\$ 22,033
	Phone Set Upgrade	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Equipment under maintenance/support, and reliability.	Multiple Links: Marina Airport Multiple Links: Laurel Yd, 911	\$ 9,014
	Phone System - Infrastructure Upgrade	Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.	Reliability and continued interoperability with the phone system, from vendor.	Replace telephone system PBX cabinets at County sites. Phase III!	\$ 3,005
					\$ 361
					2021-22 Sum \$ 373,965
2022-23		End of life - no support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to		Multiple Links: MBAMS - Tri County, Creekbridge Multiple Links: MBAMS - Tri County, Creekbridge	\$ 4,567
	Microwave Link Replacements	Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Ensure reliability and continued maintenance/support.	Multiple Links: King City, Moffett, Bryant Canyon Multiple Links: Admin Bldg.	\$ 33,491
		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.		Multiple Links: King City, Moffett, Bryant Canyon Multiple Links: Marina Airport	\$ 66,100
	Phone Set Upgrade	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Equipment under maintenance/support, and reliability.	Multiple Links: Mty Courthouse, King City Ag Multiple Links: Marina Airport	\$ 25,038
					\$ 9,014
					2022-23 Sum \$ 259,592
2023-24		End of life - no support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to support residents.		Multiple Links: MBAMS - Tri County, Creekbridge	\$ 69,804
					2023-24 Sum \$ 38,058

ATTACHMENT 1 - ITD Capital Replacement Summary by FY

FY	Project Category	Project Needs - Impact of Not Doing	Project Benefits	Technical description	Total
	Microwave Link Replacements	Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Ensure reliability and continued maintenance/support.	Multiple Links: King City, Moffett, Bryant Canyon	\$ 9,014
		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.		Multiple Links: King City, Moffett, Bryant Canyon	\$ 66,100
				Multiple Links: Admin Bldg.	\$ 12,519
				Multiple Links: Mty Courthouse, King City Ag	\$ 6,009
				Multiple Links: Mty Courthouse, King City Ag	\$ 44,067
2024-25		2023-24 Sum \$ 175,767			
	Microwave Link Replacements	End of life • No support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to Microwaves are for data network redundancy, phone system primary and redundancy, and radio Communications.	Ensure reliability and continued maintenance/support.	Multiple Links: MBAMS - Tri County, Creekbridge	\$ 2,283
		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.		Multiple Links: MBAMS - Tri County, Creekbridge	\$ 16,746
				Multiple Links: King City, Moffett, Bryant Canyon	\$ 37,557
				Multiple Links: Mty Courthouse, King City Ag	\$ 50,076
2025-26		2024-25 Sum \$ 106,662			
	Microwave Link Replacements	One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Ensure reliability and continued maintenance/support.	Multiple Links: Mty Courthouse, King City Ag	\$ 44,067
				Multiple Links: Mty Courthouse, King City Ag	\$ 6,009
2026-27		2025-26 Sum \$ 50,076			
	Microwave Link Replacements	One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Ensure reliability and continued maintenance/support.	Multiple Links: Mty Courthouse, King City Ag	\$ 22,033
				Multiple Links: Mty Courthouse, King City Ag	\$ 3,005
Grand Total		2026-27 Sum \$ 25,038			
					\$ 10723.854

ATTACHMENT I - TTD Capital Replacement Summary by Project

Project Category		FY	Project Needs - Impact of Not Doing	Technical description	Project Benefits	Total
Sum of Purchase AND Lease Cost	Project Category	FY	Project Needs - Impact of Not Doing	Technical description	Project Benefits	
Active Directory						
		2014-15	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	2012 User Client Access License (CALs) (Microsoft Core CAL) & Software (5000 Users) Impact SharePoint & Basic Exchange Access as well as EDs purview. Allows access to all county data resources within county & authorized outside agencies.	Ensures continued secure access to county data and continued maintenance/support for issues.	\$ 86,131
		2015-16	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	2012 User Client Access License (CALs) (Microsoft Core CAL) & Software (5000 Users) Impact SharePoint & Basic Exchange Access as well as EDs purview. Allows access to all county data resources within county & authorized outside agencies.	Ensures continued secure access to county data and continued maintenance/support for issues.	\$ 86,131
		2016-17	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	2012 User Client Access License (CALs) (Microsoft Core CAL) & Software (5000 Users) Impact SharePoint & Basic Exchange Access as well as EDs purview. Allows access to all county data resources within county & authorized outside agencies.	Ensures continued secure access to county data and continued maintenance/support for issues.	\$ 86,131
		2017-18	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	2012 User Client Access License (CALs) (Microsoft Core CAL) & Software (5000 Users) Impact SharePoint & Basic Exchange Access as well as EDs purview. Allows access to all county data resources within county & authorized outside agencies.	Ensures continued secure access to county data and continued maintenance/support for issues.	\$ 86,131
		2018-19	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	2012 User Client Access License (CALs) (Microsoft Core CAL) & Software (5000 Users) Impact SharePoint & Basic Exchange Access as well as EDs purview. Allows access to all county data resources within county & authorized outside agencies.	Ensures continued secure access to county data and continued maintenance/support for issues.	\$ 86,131
		2019-20	Support will not be available during this time. This would impose a critical security risk to county data access which is essential.	2012 User Client Access License (CALs) (Microsoft Core CAL) & Software (5000 Users) Impact SharePoint & Basic Exchange Access as well as EDs purview. Allows access to all county data resources within county & authorized outside agencies.	Ensures continued secure access to county data and continued maintenance/support for issues.	\$ 86,131
				Active Directory Sum		
Call Accounting System Upgrade		2014-15	Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system of the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support.	Pinnacle call accounting server for application & reports upgrade - tracks all calls from county phone system. Provided billing for phone calls, equipment, and labor.	Continued call accounting, archiving, and tracking capabilities.	\$ 40,000
						\$ 40,000
						\$ 40,000

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs - Impact of Not Doing	Technical description	Project Benefits		Total
Email	2014-15	Retrieval of archived email is not efficient. Hinders response times for departments/court requests, no additional features/functionality is allowed currently. Support will end for this product.	Email archiving & forensic toolkit to allow for retrieval of email for legal inquiries.	Hosting the emails within the county is secure, reduces the recurring cost, and managed directly by county. Retain the ability to properly archive and retrieve email as needed in a timely manner.	\$ 130,000	2014-15 Sum \$ 130,000
Email	2015-16	Retrieval of archived email is not efficient. Hinders response times for departments/court requests, no additional features/functionality is allowed currently. Support will end for this product.	Hosted -On site Option - Office365 (3 year cost for 5000 users/\$6 per user may include Standard SharePoint & Lync.).	Hosting the emails within the county is secure, reduces the recurring cost, and managed directly by county. Retain the ability to properly archive and retrieve email as needed in a timely manner.	\$ 950,000	2015-16 Sum \$ 950,000
Email Sum					\$ 1,080,000	2014-15 Sum \$ 1,080,000
Intrusion Detection System	2014-15	Inability to detect computer attacks or nefarious activity across the network. Increased chance of department data theft being undetected and unstopped.	Core Instruction Detection Sensors replacement.	Allows Security to contain attack before department data is stolen. Another component of the Intrusion Detection System - Security "cameras" on the network, able to detect network-based computer attacks and alert Security.	\$ 47,532	2014-15 Sum \$ 47,532
Intrusion Detection System	2015-16	Inability to detect computer attacks or nefarious activity across the network. Increased chance of department data theft being undetected and unstopped.	Remote field intrusion detection sensor replacement.	Allows Security to contain attack before department data is stolen.	\$ 30,000	2014-15 Sum \$ 30,000
			Core Instruction Detection Sensors replacement.	Allows Security to contain attack before department data is stolen.	\$ 24,000	2015-16 Sum \$ 24,000
					\$ 47,532	2015-16 Sum \$ 47,532
					\$ 71,532	2015-16 Sum \$ 71,532

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs - Impact of Not Doing	Technical description	Project Benefits	Total
	2016-17	Inability to detect computer attacks or nefarious activity across the network. Increased chance of department data theft being undetected and unstopped.	Core Intrusion Detection Sensors replacement.	Allows Security to contain attack before department data is stolen.	\$ 47,532 2016-17 Sum \$ 47,532
	2017-18	Inability to detect computer attacks or nefarious activity across the network. Increased chance of department data theft being undetected and unstopped.	Core Intrusion Detection Sensors replacement.	Allows Security to contain attack before department data is stolen.	\$ 47,532 2017-18 Sum \$ 47,532
	2018-19	Inability to detect computer attacks or nefarious activity across the network. Increased chance of department data theft being undetected and unstopped.	Core Intrusion Detection Sensors replacement.	Allows Security to contain attack before department data is stolen.	\$ 47,532 2018-19 Sum \$ 47,532
ITD Data Center Upgrades		Intrusion Detection System Sum		All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 291,660 2014-15 Sum \$ 291,660
	2014-15	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of certain network equipment housed in Data Center.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 243,540 2014-15 Sum \$ 243,540
	2015-16	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of certain network equipment housed in Data Center.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 177,480 2015-16 Sum \$ 177,480
	2016-17	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of certain network equipment housed in Data Center.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 185,916 2016-17 Sum \$ 185,916

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs – Impact of Not Doing	Technical description	Project Benefits	Total
	2017-18	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of certain network equipment housed in Data Center.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 185,916 2017-18 Sum \$ 185,916
	2018-19	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of certain network equipment housed in Data Center.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 185,916 2018-19 Sum \$ 185,916
	2019-20	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of certain network equipment housed in Data Center.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 34,500 2019-20 Sum \$ 34,500
	2020-21	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of certain network equipment housed in Data Center.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 8,436 2020-21 Sum \$ 8,436
Microwave Link Replacements	2020-21	Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	ITD Data Center upgrades Sum Multiple Links: Constellation system to Moffett, CES, Admin bldg	Ensure reliability and continued maintenance/support.	\$ 1,021,704 \$ 133,200

ATTACHMENT 1 - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs - Impact of Not Doing	Technical description	Project Benefits	Total
	2014-15	One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Multiple Links: Constellation system to Moffett, CES, Admin bldg	Seaside Water Quad,	Ensure reliability and continued maintenance/support. 2014-15 Sum \$ 58,489 191,689
2015-16		Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Multiple Links: Constellation system to Moffett, CES, Admin bldg	Seaside Water Quad,	Ensure reliability and continued maintenance/support. 133,200
	2016-17	One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Multiple Links: Constellation system to Moffett, CES, Admin bldg	Seaside Water Quad,	Ensure reliability and continued maintenance/support. 2015-16 Sum \$ 58,489 191,689
		Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Multiple Links: Constellation system to Moffett, CES, Admin bldg	Seaside Water Laurel Yd, 911	Ensure reliability and continued maintenance/support. 133,200
	2017-18	One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Multiple Links: Constellation system to Moffett, CES, Admin bldg	Seaside Water Marina	Ensure reliability and continued maintenance/support. 2016-17 Sum \$ 6,009 197,698
		Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Multiple Links: Constellation system to Moffett, CES, Admin bldg	Airport Laurel Yd, 911	Ensure reliability and continued maintenance/support. 133,200
	2018-19	One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Multiple Links: Constellation system to Moffett, CES, Admin bldg	Seaside Water Admin Bldg. Marina	Ensure reliability and continued maintenance/support. 2017-18 Sum \$ 6,009 200,703
		Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Multiple Links: Constellation system to Moffett, CES, Admin bldg	Airport Laurel Yd, 911	Ensure reliability and continued maintenance/support. 133,200
		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Multiple Links: Constellation system to Moffett, CES, Admin bldg	Seaside Water Laurel Yd, 911	Ensure reliability and continued maintenance/support. 2018-19 Sum \$ 6,009 225,741

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs - Impact of Not Doing	Technical Description	Project Benefits	Total
		End of life - no support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to support residents.	Multiple Links: County, Creekbridge	MBAMS - Tri Ensure reliability and continued maintenance/support.	\$ 38,058
		Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Multiple Links: Bryant Canyon	Admin Bldg. Ensure reliability and continued maintenance/support.	\$ 25,038
2019-20		One of the primary links for radio communications - no longer supported. Failure of device will impede radio communications.	Multiple Links: Constellation system to Moffett; CES, Admin bldg	King City, Moffett Quad, Ensure reliability and continued maintenance/support.	\$ 75,114
			Multiple Links: Airport	Marina Ensure reliability and continued maintenance/support.	\$ 66,600
			Multiple Links: Tank, Lower Tower, ITD Stratex link	Seaside Water Ensure reliability and continued maintenance/support.	\$ 3,005
			Multiple Links: Laurel Yd, 911	Laurel Yd, 911 Ensure reliability and continued maintenance/support.	\$ 29,245
					\$ 243,069
		End of life - no support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to support residents.	Multiple Links: County, Creekbridge	MBAMS - Tri Ensure reliability and continued maintenance/support.	\$ 6,009
2020-21		Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Multiple Links: Bryant Canyon	Admin Bldg. Ensure reliability and continued maintenance/support.	\$ 25,038
		One of the primary links for radio communications - no longer supported. Failure of device will impede radio communications.	Multiple Links: Airport	King City, Moffett Marina Ensure reliability and continued maintenance/support.	\$ 75,114
			Multiple Links: Laurel Yd, 911	Laurel Yd, 911 Ensure reliability and continued maintenance/support.	\$ 3,005
					\$ 147,224
		End of life - no support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to support residents.	Multiple Links: County, Creekbridge	MBAMS - Tri Ensure reliability and continued maintenance/support.	\$ 33,491
		Multiple Links: MBAMS - Tri County, Creekbridge		Ensure reliability and continued maintenance/support.	\$ 4,567
		Multiple Links:	Admin Bldg.	Ensure reliability and continued maintenance/support.	\$ 22,033

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs - Impact of Not Doing	Technical description	Project Benefits	Total
	2021-22	Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Multiple Links: King City, Moffett Bryant Canyon	Ensure reliability and continued maintenance/support.	\$ 66,100
		Multiple Links: Admin Bldg.		Ensure reliability and continued maintenance/support.	\$ 3,005
		Multiple Links: King City, Moffett, Bryant Canyon		Ensure reliability and continued maintenance/support.	\$ 9,014
		Multiple Links: Marina Airport	Marina Ensure reliability and continued maintenance/support.	Ensure reliability and continued maintenance/support.	\$ 2,644
		Multiple Links: King City Ag	Mty Courthouse Ensure reliability and continued maintenance/support.	Ensure reliability and continued maintenance/support.	\$ 50,076
		Multiple Links: Laurel Yd, 911	Laurel Yd, 911 Ensure reliability and continued maintenance/support.	Ensure reliability and continued maintenance/support.	\$ 3,005
		Multiple Link: Marina Airport		Ensure reliability and continued maintenance/support.	\$ 361
		Multiple Links:MBAMS - Tri County, Creekbridge		Ensure reliability and continued maintenance/support.	\$ 194,296
		Multiple Links: MBAMS - Tri County, Creekbridge		Ensure reliability and continued maintenance/support.	\$ 33,491
		Multiple Links: Admin Bldg.		Ensure reliability and continued maintenance/support.	\$ 4,567
		Multiple Links: King City, Moffett, Bryant Canyon		Ensure reliability and continued maintenance/support.	\$ 66,100
		Multiple Links: King City, Bryant Canyon		Ensure reliability and continued maintenance/support.	\$ 9,014
		Multiple Links: Marina Airport		Ensure reliability and continued maintenance/support.	\$ 180
		Multiple Links: Mty Courthouse, King City Ag		Ensure reliability and continued maintenance/support.	\$ 1,322
		Multiple Links: Mty Courthouse, King City Ag		Ensure reliability and continued maintenance/support.	\$ 44,067
				Ensure reliability and continued maintenance/support.	\$ 6,009
				2022-23 Sum	\$ 189,788

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs / Impact of Not Doing	Technical description	Project Benefits	Total
		End of life - no support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to support residents.	Multiple Links: MBAMS - Tri County, Creekbridge	Ensure reliability and continued maintenance/support.	\$ 38,058
2023-24		Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Multiple Links: King City, Moffett, Bryant Canyon	Ensure reliability and continued maintenance/support.	\$ 66,100
			Multiple Links: King City, Moffett, Bryant Canyon	Ensure reliability and continued maintenance/support.	\$ 9,014
			Multiple Links: Admin Bldg.	Ensure reliability and continued maintenance/support.	\$ 12,519
		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 6,009
			Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 44,067
			Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 175,767
2024-25		End of life - no support. Failure of device will impede communications - both data and phone. This link is absolutely necessary for interoperable communications between Tri-Counties in the event of a disaster to support residents.	Multiple Links: MBAMS - Tri County, Creekbridge	Ensure reliability and continued maintenance/support.	\$ 16,746
		Microwaves are for data network redundancy, phone system primary and redundancy, and radio communications.	Multiple Links: King City, Moffett, Bryant Canyon	Ensure reliability and continued maintenance/support.	\$ 2,283
		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 37,557
			Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 50,076
			Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 106,662
2025-26		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 44,067
			Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 6,009
			Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 50,076
2026-27		One of the primary links for radio communications - no longer supported, failure of device will impede radio communications.	Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 22,033
			Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 3,005
			Multiple Links: Mty Courthouse, King City Ag	Ensure reliability and continued maintenance/support.	\$ 25,038
			Microwave Link Replacements Sum		\$ 2,139,440

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs - Impact of Not Doing	Technical Description	Project Benefits	Total
Network Infrastructure Upgrade	2014-15	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of network equipment at external sites.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 66,720 2014-15 Sum \$ 66,720
	2015-16	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of certain network equipment housed in Data Center.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 92,124 2015-16 Sum \$ 92,124
	2015-17	Critical equipment is either nearing the end of support and/or cannot be supported due to age.	Replacement of network equipment at external sites.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 435,264 2015-16 Sum \$ 527,388

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs - Impact of Not Doing	Technical description	Project Benefits	Total
	2016-17	Device failure without support will impact network access for users.	Replacement of network equipment at external sites.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 558,444 2016-17 Sum \$ 650,568
	2017-18	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of certain network equipment housed in Data Center. Replacement of network equipment at external sites.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 92,124 2017-18 Sum \$ 558,444 2017-18 Sum \$ 650,568
	2018-19	Critical equipment is either nearing the end of support and/or cannot be supported due to age.		All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 92,124

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs - Impact of Not Doing	Technical Description	Project Benefits	Total
	2018-19	Device failure without support will impact network access for users.	Replacement of network equipment at external sites.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 558,444 2018-19 Sum \$ 650,568
	2019-20	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of network equipment at external sites.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 491,724 2019-20 Sum \$ 491,724
	2020-21	Critical equipment is either nearing the end of support and/or cannot be supported due to age. Device failure without support will impact network access for users.	Replacement of network equipment at external sites.	All critical network equipment replacement will ensure reliability, proper support from manufacturer, increase bandwidth if applicable, and ensure ability to upgrade technology which either utilizes the network such as VoIP or is integrated as part of the network such as microwaves.	\$ 123,180 2020-21 Sum \$ 123,180
Phone Set Upgrade	2015-16	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Network Infrastructure Upgrade Sum	Install VoIP telephones in preparation for handset replacement at all county facilities in the coming years - Phase I - test, troubleshoot, develop implementation plan.	\$ 3,160,716
	2016-17	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.		Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	\$ 9,312 2015-16 Sum \$ 9,312
				Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	\$ 9,312 2016-17 Sum \$ 9,312

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs + Impact of Not Doing	Technical description	Project Benefits	Total
	2017-18	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Install VoIP telephones in preparation for handset replacement at all county facilities in the coming years - Phase I - test, troubleshoot, develop implementation plan.	Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	\$ 9,312
	2018-19	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Telephone set replacement.	Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	\$ 69,804
	2019-20	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Install VoIP telephones in preparation for handset replacement at all county facilities in the coming years - Phase I - test, troubleshoot, develop implementation plan.	2017-18 Sum \$ 79,116	
	2020-21	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Telephone set replacement.	Equipment under maintenance/support, continued interoperability with the phone system, and reliability.	\$ 9,312
	2021-22	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Telephone set replacement.	2018-19 Sum \$ 148,920	
	2022-23	Current handsets are not supported, upgrade is absolutely necessary to ensure reliability and performance phone capabilities.	Telephone set replacement.	2019-20 Sum \$ 148,920	
			Phone Set Upgrade Sum	2020-21 Sum \$ 139,608	
			Phone Set Upgrade Sum	2021-22 Sum \$ 139,608	
			Phone Set Upgrade Sum	2022-23 Sum \$ 744,600	
			Phone Set Upgrade Sum	2022-23 Sum \$ 69,804	
			Phone Set Upgrade Sum	2022-23 Sum \$ 69,804	

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs / Impact of Not Doing	Technical description	Project Benefits	Total
Phone System - Infrastructure Upgrade	2014-15	Cannot utilize the network for phone system related use such as calls, video conferencing and reduced cost phone usage.	Software & Hardware Session border controller for Session Initiation Protocol (SIP) services outside the County - Video conferencing, IP phones, reduced cost for phone calls outside of our network.	Reliability and continued maintenance/support from vendor. Reduced long distance fees.	\$ 35,000
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites.	Reliability and continued maintenance/support from vendor.	\$ 80,122 2014-15 Sum \$ 115,122
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase II	Reliability and continued maintenance/support from vendor.	\$ 80,122
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase I	Reliability and continued maintenance/support from vendor.	\$ 80,122
	2015-16	Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system of the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support. Lapses in maintenance/support subscription will require retroactive payment to reinstate service by vendor.	VoIP performance management software application - this is an intermediary step to VoIP.	Reliability and continued maintenance/support from vendor.	\$ 50,000 2015-16 Sum \$ 210,244
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase II	Reliability and continued maintenance/support from vendor.	\$ 80,122
	2016-17	Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.	Replace telephone system PBX cabinets at County sites.	Reliability and continued maintenance/support from vendor.	\$ 80,122
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase I	Reliability and continued maintenance/support from vendor.	\$ 80,122 2016-17 Sum \$ 240,366
	2017-18	Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.	Replace telephone system PBX cabinets at County sites. Phase II	Reliability and continued maintenance/support from vendor.	\$ 80,122
		Replace telephone system PBX cabinets at County sites. Phase III	Replace telephone system PBX cabinets at County sites. Phase II	Reliability and continued maintenance/support from vendor.	\$ 80,122 2017-18 Sum \$ 240,366

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs - Impact of Not Doing	Technical description	Project Benefits	Total
	2018-19	Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase I	Reliability and continued maintenance/support from vendor.	\$ 80,122
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.	Replace telephone system PBX cabinets at County sites. Phase II	Reliability and continued maintenance/support from vendor.	\$ 80,122
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase III	Reliability and continued maintenance/support from vendor.	\$ 80,122
				2018-19 Sum \$ 240,366	
	2019-20	Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase I	Reliability and continued maintenance/support from vendor.	\$ 40,061
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.	Replace telephone system PBX cabinets at County sites. Phase II	Reliability and continued maintenance/support from vendor.	\$ 80,122
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase III	Reliability and continued maintenance/support from vendor.	\$ 80,122
				2019-20 Sum \$ 200,305	
	2020-21	Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.	Replace telephone system PBX cabinets at County sites. Phase I	Reliability and continued maintenance/support from vendor.	\$ 80,122
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase II	Reliability and continued maintenance/support from vendor.	\$ 80,122
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase III	Reliability and continued maintenance/support from vendor.	\$ 80,122
				2020-21 Sum \$ 120,183	
	2021-22	Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer. Hardware is linked to software upgrades.	Replace telephone system PBX cabinets at County sites. Phase I	Reliability and continued maintenance/support from vendor.	\$ 40,061
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase II	Reliability and continued maintenance/support from vendor.	\$ 40,061
		Hardware must be upgraded to support the future software version. Version 6 software will not work with current hardware and is not supported by manufacturer.	Replace telephone system PBX cabinets at County sites. Phase III	Reliability and continued maintenance/support from vendor.	\$ 40,061
				2021-22 Sum \$ 120,183	
Phone System Software Upgrade	2016-17	Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system of the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support.	Phone System Software upgrade.	Continued support and maintenance.	\$ 25,000
					2016-17 Sum \$ 25,000

ATTACHMENT I - ITD Capital Replacement Summary by Project

Project Category	FY	Project Needs - Impact of Not Doing	Technical description	Project Benefits	Total
RightFax Software Upgrade	2015-16	Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system of the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support.	RightFax software applications upgrade - allows faxing capability from pc. Software upgrades are necessary for continued support, maintenance and to ensure operability with upgraded operating systems on the server.	Continued reliability and maintenance/support by vendor.	\$ 15,000 2015-16 Sum \$ 15,000
		RightFax Software Upgrade Sum			\$ 15,000
Server Virtualization	2014-15	Hardware and hosting costs will continue to increase due to the need to replace and upgrade. Software is currently at end of life without support.	Licensing & implementation of server virtualization. Private cloud.	Reduced hosting costs with ITD with the ability to have disaster recovery.	\$ 50,000 2014-15 Sum \$ 50,000
		RightFax Software Upgrade Sum			\$ 50,000
Sharepoint	2014-15	Necessary for continued use of Sharepoint by Depts.	Standard Edition Option - licensing cost.	Ability to utilize the full Sharepoint features/functionality for document sharing, unified tool for collecting dept procedures, updates, information sharing and communications within the dept.	\$ 120,000 2014-15 Sum \$ 120,000
		Server Virtualization Sum			\$ 120,000
Test Network	2015-16	Without a test network, ITD cannot deploy hardware, software, and proprietary applications safely. This is essential for any IT environment with the critical data to properly support all county IT needs.	Hardware and software necessary for the Test Network. Test networks are industry standard to enable ITD to properly test hardware, software, operating systems, service pack upgrades, firmware in a test environment before deploying in a live environment.	All equipment, software, firmware, software service update and proprietary tools can be tested and troubleshooting can be properly performed prior to deployment in live instance.	\$ 50,000 2015-16 Sum \$ 50,000
		Sharepoint Sum			\$ 120,000
Tivoli Storage Manager	2014-15	Failure of existing equipment would prohibit archiving critical and confidential data that will need to be accessed. The duration of backing up critical information will prohibit all data to be archived. There is risk of loss since redundant data will not exist.	LTO - 5 Tapes & Drives for the back up of all county's data (3584).	The recommended upgrade will ensure redundancy, reliability, and reduce off site storage costs of critical confidential data.	\$ 25,000 2014-15 Sum \$ 25,000
		Test Network Sum			\$ 25,000
Voicemail System Upgrade	2014-15	Software applications require upgrades to ensure maintenance/support from the vendor & ensures compatibility with the operating system of the server & the integration with the phone system. Any lapse in the upgrades would increase costs for maintenance/support and put the phone system at risk of failure with no support.	Tivoli Storage Manager	Continued reliability and maintenance/support by vendor.	\$ 40,000 2014-15 Sum \$ 40,000
		Tivoli Storage Manager Sum			\$ 40,000
		VoiceMail System Upgrade Sum			\$ 40,000

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Project Category	FY	Project Needs - Impact of Not Doing	Technical Description	Project Benefits	Total
					\$ 10,723,834

