

## 2019 Capital Improvement Budget Information Technology Department

(in thousands)

<b>Projects</b>	<b>Bonds</b>	<b>State</b>	<b>Federal</b>	<b>Other</b>	<b>Total</b>
Application Services Hardware and Software	-	-	-	67	67
ASM and AFM Security Modules for F-5	-	-	-	97	97
Database Infrastructure Replacement	-	-	-	100	100
Desktop Life Cycle Management	-	-	-	20	20
Network/Equipment Life Cycle Management	-	-	-	300	300
PBX Phone System Life Cycle Management	-	-	-	75	75
Records Management Storage	-	-	-	225	225
SAP Infrastructure Development	-	-	-	350	350
Security Hardware and Software Refresh	-	-	-	500	500
Server and Storage Hardware and Software Life Cycle Management	-	-	-	403	403
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,137</b>	<b>2,137</b>

## 2019 - 2024 Capital Improvement Program Information Technology Department

(in thousands)

Projects	Year	Bonds	State	Federal	Other	Total
Infrastructure						
Application Services Hardware and Software	2019	-	-	-	67	67
ASM and AFM Security Modules for F-5	2019	-	-	-	97	97
Database Infrastructure Replacement	2019	-	-	-	100	100
	2022	-	-	-	100	100
		-	-	-	200	200
Desktop Life Cycle Management	2019	-	-	-	20	20
	2020	-	-	-	20	20
	2021	-	-	-	20	20
	2022	-	-	-	20	20
	2023	-	-	-	20	20
	2024	-	-	-	20	20
		-	-	-	120	120
Enterprise SIEM Event Logging and Correlation	2020	-	-	-	50	50
	2021	-	-	-	50	50
	2022	-	-	-	50	50
	2023	-	-	-	50	50
	2024	-	-	-	50	50
		-	-	-	250	250
Network/Equipment Life Cycle Management	2019	-	-	-	300	300
	2020	-	-	-	300	300
	2021	-	-	-	300	300
	2022	-	-	-	300	300
	2023	-	-	-	300	300
	2024	-	-	-	300	300
		-	-	-	1,800	1,800
PBX Phone System Life Cycle Management	2019	-	-	-	75	75
	2020	-	-	-	75	75
	2021	-	-	-	75	75
	2022	-	-	-	75	75
	2023	-	-	-	75	75
	2024	-	-	-	75	75
		-	-	-	450	450
Records Management Storage	2019	-	-	-	225	225

## 2019 - 2024 Capital Improvement Program Information Technology Department

(in thousands)

Projects	Year	Bonds	State	Federal	Other	Total
SAP Governance, Risk, and Compliance	2020	-	-	-	523	523
SAP Infrastructure Development	2019	-	-	-	350	350
SAP Test Data Migration Server	2020	-	-	-	910	910
Security Hardware and Software Refresh	2019	-	-	-	500	500
	2020	-	-	-	50	50
	2021	-	-	-	50	50
	2022	-	-	-	50	50
	2023	-	-	-	50	50
	2024	-	-	-	50	50
		-	-	-	750	750
Server and Storage Hardware and Software Life Cycle Management	2019	-	-	-	403	403
	2020	-	-	-	200	200
	2021	-	-	-	200	200
	2022	-	-	-	200	200
	2023	-	-	-	200	200
	2024	-	-	-	200	200
		-	-	-	1,403	1,403
<b>Total</b>		-	-	-	<b>7,145</b>	<b>7,145</b>

**Application Services Hardware and Software**

**Project ID** IT2019009 **Department** Information Technology  
**Project Type** IT **Start Date** September 2019  
**Location** **End Date** December 2019

**Description**

Application Services hardware and software licenses for laserfiche server, database migration server, and mobile devices for application testing (includes \$12K in the capital project for professional services support).

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	67	-	-	-	-	-	67
<b>Total (in thousands)</b>		<b>67</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>67</b>

**O & M Costs**

Computer HW Maint(MOA/AWWU)	8	8	8	8	8	8	8	48
Depreciation	7	13	13	13	13	13	8	67
<b>Total (in thousands)</b>	<b>15</b>	<b>21</b>	<b>21</b>	<b>21</b>	<b>21</b>	<b>21</b>	<b>16</b>	<b>115</b>

**ASM and AFM Security Modules for F-5**

**Project ID** IT2019001 **Department** Information Technology  
**Project Type** IT **Start Date** March 2019  
**Location** **End Date** July 2019

**Description**

Application Security Manager (ASM) and Advanced Firewall Manager (AFM)

This project is to purchase and implement ASM and AFM modules for two F5 BIG-IP Application Delivery Controllers (ADC). The ASM and AFM modules work together to protect against and mitigate Internet security threats to applications being delivered through the ADC. Not acquiring and implementing these modules would leave applications delivered through the F5 BIG-IP less secure, and would impact plans to re-architect delivery and security of public facing web applications.

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	97	-	-	-	-	-	97
<b>Total (in thousands)</b>		<b>97</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>97</b>
<b>O &amp; M Costs</b>								
LT Contracts Pay Int		1	1	1	1	1	1	6
Computer SW Maint(MOA/AWWU)		13	13	13	13	13	13	78
Depreciation		6	19	19	19	19	15	97
<b>Total (in thousands)</b>		<b>20</b>	<b>33</b>	<b>33</b>	<b>33</b>	<b>33</b>	<b>29</b>	<b>181</b>

**Database Infrastructure Replacement**

<b>Project ID</b>	IT2019005	<b>Department</b>	Information Technology
<b>Project Type</b>	IT	<b>Start Date</b>	April 2019
<b>Location</b>		<b>End Date</b>	July 2019

**Description**

Database Infrastructure Replacement - Scheduled infrastructure refresh as equipment ages. These are servers specific to Oracle and structured query language (SQL) database.

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	100	-	-	100	-	-	200
<b>Total (in thousands)</b>		<b>100</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>-</b>	<b>-</b>	<b>200</b>

**O & M Costs**

Depreciation	5	20	20	25	40	35	145
LT Contracts Pay Int	-	1	1	1	1	1	5
Computer HW Maint(MOA/AWWU)	20	20	20	20	20	20	120
<b>Total (in thousands)</b>	<b>25</b>	<b>41</b>	<b>41</b>	<b>46</b>	<b>61</b>	<b>56</b>	<b>270</b>



**Enterprise SIEM Event Logging and Correlation**

**Project ID** IT2019004 **Department** Information Technology  
**Project Type** IT **Start Date** March 2019  
**Location** **End Date** October 2019

**Description**

Enterprise Security Information and Event Management (SIEM) Event Logging and Correlation.

Provide proactive replacement and upgrades to keep MOA current with changes to the infrastructure. This software tracks and alerts on MOA abnormalities that take place all across the MOA wide network. This is a proactive tool to provide a health check on equipment by providing a single source reporting system. (This project shifted from 2018 Capital budget plan)

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	-	50	50	50	50	50	250
<b>Total (in thousands)</b>		<b>-</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>250</b>

**O & M Costs**

Computer SW Maint(MOA/AWWU)	80	80	80	80	80	80	480
LT Contracts Pay Int	1	2	2	2	2	2	11
Straight Time Labor	78	82	86	91	95	100	532
Depreciation	20	85	95	105	115	105	525
<b>Total (in thousands)</b>	<b>179</b>	<b>249</b>	<b>263</b>	<b>278</b>	<b>292</b>	<b>287</b>	<b>1,548</b>



**Network/Equipment Life Cycle Management**

**Project ID** IT2019006 **Department** Information Technology  
**Project Type** IT **Start Date** March 2019  
**Location** **End Date** October 2019

**Description**

Network Life Cycle Replacement - To replace outdated Enterprise infrastructure no longer supported by the manufacturer. Proactive approach to avoid network failures due to out dated equipment. Budget will be allocated towards Emergency Operations Control; Dept of Health & Human Services; City Hall Network; and Network Infrastructure and Power Distribution Units. (Maintenance for Smartnet)

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	300	300	300	300	300	300	1,800
<b>Total (in thousands)</b>		<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>1,800</b>
<b>O &amp; M Costs</b>								
Computer HW Maint(MOA/AWWU)		60	60	60	60	60	60	360
Depreciation		15	75	135	195	255	300	975
LT Contracts Pay Int		-	2	2	2	2	2	10
<b>Total (in thousands)</b>		<b>75</b>	<b>137</b>	<b>197</b>	<b>257</b>	<b>317</b>	<b>362</b>	<b>1,345</b>

**PBX Phone System Life Cycle Management**

<b>Project ID</b>	IT2019007	<b>Department</b>	Information Technology
<b>Project Type</b>	IT	<b>Start Date</b>	March 2019
<b>Location</b>		<b>End Date</b>	October 2019

**Description**

Private Branch Exchange (PBX) Phone System Life Cycle Management

Continue the transition from the aging on-premise PBX phone architecture to current technology using a cloud and on-premise environment. This will replace aged headsets and purchase new licenses and voice gateways as needed.

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	75	75	75	75	75	75	450
<b>Total (in thousands)</b>		<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>450</b>
<b>O &amp; M Costs</b>								
Depreciation		7	22	37	52	67	75	260
Computer HW Maint(MOA/AWWU)		15	15	15	15	15	15	90
<b>Total (in thousands)</b>		<b>22</b>	<b>37</b>	<b>52</b>	<b>67</b>	<b>82</b>	<b>90</b>	<b>350</b>

**Records Management Storage**

**Project ID** IT2019013 **Department** Information Technology  
**Project Type** IT **Start Date** July 2019  
**Location** **End Date** September 2019

**Description**

Implement an electronic records management system to enable compliance with Municipal code for management, retention, and destruction of electronic records.

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	225	-	-	-	-	-	225
<b>Total (in thousands)</b>		<b>225</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>225</b>

**O & M Costs**

Depreciation		22	45	45	45	45	23	225
Computer SW Maint(MOA/AWWU)		45	45	45	45	45	45	270
<b>Total (in thousands)</b>		<b>67</b>	<b>90</b>	<b>90</b>	<b>90</b>	<b>90</b>	<b>68</b>	<b>495</b>

**SAP Governance, Risk, and Compliance**

<b>Project ID</b>	IT2019011	<b>Department</b>	Information Technology
<b>Project Type</b>	IT	<b>Start Date</b>	July 2020
<b>Location</b>		<b>End Date</b>	October 2020

**Description**

Governance, Risk, and Compliance (GRC)

MOA purchased only a trial version of SAP's GRC. GRC monitors and controls who has access to what within our organization, both in the cloud and on premise. It monitors risk level based on the municipality's risk appetite. Allows for management of regulatory and compliance policies/procedures. (Includes \$175K in the capital project for professional service support).

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	-	523	-	-	-	-	523
<b>Total (in thousands)</b>		<b>-</b>	<b>523</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>523</b>

**O & M Costs**

Computer SW Maint(MOA/AWWU)	-	77	77	77	77	77	77	385
LT Contracts Pay Int	-	1	3	3	3	3	3	13
Depreciation	-	53	105	105	105	105	105	473
<b>Total (in thousands)</b>		<b>-</b>	<b>131</b>	<b>185</b>	<b>185</b>	<b>185</b>	<b>185</b>	<b>871</b>

**SAP Infrastructure Development**

**Project ID** IT2019010 **Department** Information Technology  
**Project Type** IT **Start Date** April 2019  
**Location** **End Date** June 2019

**Description**

Provide an infrastructure environment to move SAP operations from the HEC environment to on-premise. Purchase of servers, backup virtualization, and specialized storage will allow MOA to reduce SAP operating costs by moving the SAP operation in-house and off the SAP sponsored HEC.

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	350	-	-	-	-	-	350
<b>Total (in thousands)</b>		<b>350</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>350</b>

**O & M Costs**

Depreciation	35	70	70	70	70	35	350
LT Contracts Pay Int	1	2	2	2	2	2	11
Computer SW Maint(MOA/AWWU)	70	70	70	70	70	70	420
<b>Total (in thousands)</b>	<b>106</b>	<b>142</b>	<b>142</b>	<b>142</b>	<b>142</b>	<b>107</b>	<b>781</b>

**SAP Test Data Migration Server**

<b>Project ID</b>	IT2019012	<b>Department</b>	Information Technology
<b>Project Type</b>	IT	<b>Start Date</b>	July 2019
<b>Location</b>		<b>End Date</b>	September 2019

**Description**

SAP Test Data Migration Server (TDMS).

This was not implemented before the SAP project completed. Provides data slicing and management, shell creation, data scrambling, and system landscape management. (Includes \$160K in the capital project for professional services support).

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	-	910	-	-	-	-	910
<b>Total (in thousands)</b>		-	<b>910</b>	-	-	-	-	<b>910</b>

**O & M Costs**

Depreciation	-	46	182	182	182	182	774
Computer HW Maint(MOA/AWWU)	-	165	165	165	165	165	825
LT Contracts Pay Int	-	1	5	5	5	5	21
<b>Total (in thousands)</b>	-	<b>212</b>	<b>352</b>	<b>352</b>	<b>352</b>	<b>352</b>	<b>1,620</b>

**Security Hardware and Software Refresh**

<b>Project ID</b>	IT2019003	<b>Department</b>	Information Technology
<b>Project Type</b>	IT	<b>Start Date</b>	March 2019
<b>Location</b>		<b>End Date</b>	October 2019

**Description**

This will handle a more exposed/shared environment creating a greater challenge for security. Upgrade replaces outdated enterprise firewalls and other security appliances and software no longer supported by the manufacturer. Proactive approach to avoid security failures due to out dated equipment and to include firewalls, intrusion detection, intrusion prevention for the F5 and DMZ. Budget will be allocated towards external access to MOA network. Security infrastructure supports constituent access to MOA data, technical access from MOA technical staff, 3rd party interfaces that include connectivity to the State of Alaska, and 3rd party contractors such as SAP application support, etc.

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**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	500	50	50	50	50	50	750
<b>Total (in thousands)</b>		<b>500</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>750</b>
<hr/>								
<b>O &amp; M Costs</b>								
Computer HW Maint(MOA/AWWU)		100	100	100	100	100	100	600
LT Contracts Pay Int		1	3	3	3	3	3	16
Depreciation		25	105	115	125	135	120	625
<b>Total (in thousands)</b>		<b>126</b>	<b>208</b>	<b>218</b>	<b>228</b>	<b>238</b>	<b>223</b>	<b>1,241</b>

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**Server and Storage Hardware and Software Life Cycle Management**

<b>Project ID</b>	IT2019008	<b>Department</b>	Information Technology
<b>Project Type</b>	IT	<b>Start Date</b>	March 2019
<b>Location</b>		<b>End Date</b>	October 2019

**Description**

Replace outdated server and aging storage hardware and software. Server hardware is refreshed every 5 years. Additional storage is needed to meet growing storage demands for back-up and recovery capacity. This includes software licenses for virtualization, back up, and recovery. (Maintenance for VmWare hardware and software and Veeam software).

**Version** 2019 Approved

		2019	2020	2021	2022	2023	2024	Total
<b>Revenue Sources</b>	<b>Fund</b>							
Internal Charges to Others	607800 - Information Technology	403	200	200	200	200	200	1,403
<b>Total (in thousands)</b>		<b>403</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>1,403</b>
<b>O &amp; M Costs</b>								
Depreciation		41	100	140	180	220	222	903
LT Contracts Pay Int		1	3	3	3	3	3	16
Computer HW Maint(MOA/AWWU)		150	150	150	150	150	150	900
<b>Total (in thousands)</b>		<b>192</b>	<b>253</b>	<b>293</b>	<b>333</b>	<b>373</b>	<b>375</b>	<b>1,819</b>