Information Technology

Mission Statement

To provide the City and its residents with the technology resources required to ensure employees are able to perform their duties swiftly and efficiently, and residents derive benefit from modern, secure technology.

Fiscal Year 2017 Accomplishments

Citywide Infrastructure - Installed Voice-Over IP phones in Police Dispatch, Public Works at Crafts and Elliot, temporary Fire HQ. Added fiber to radio towers, added public wifi to new sites.

Software Improvements - Led the team to select replacement of antiquated Hansen system; expanded search tools.

Security - Continued vulnerability testing and training and security awareness for all municipal employees.

Process Improvement - Expanded use of online permitting using Community Plus.

User Support and Training - VoIP admin, Mobile Device Management Management, PWNie Express training.

Fiscal Year 2018 Desired Outcomes

Citywide Infrastructure - Continue VoIP installation into all remaining public safety sites; acceptable video solution for council chambers Expand public wireless network.

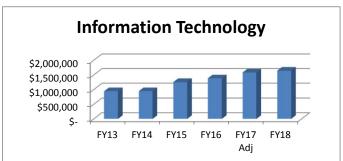
Software Improvements - Implement People GIS to replace antiquated Hansen system; expand internal search tools.

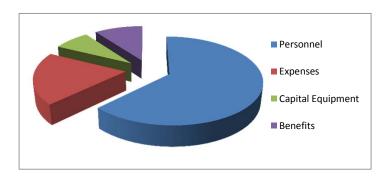
Security - Enhance network monitoring with SMS and email notifications.

Process Improvement - Determine Financial System future; Continue vision of a 21st Century City Hall; expand field capabilities of inspectors in ISD and Fire.

User Support and Training - Assist in a smooth transition to onboard new Comptroller; Security Awareness training.





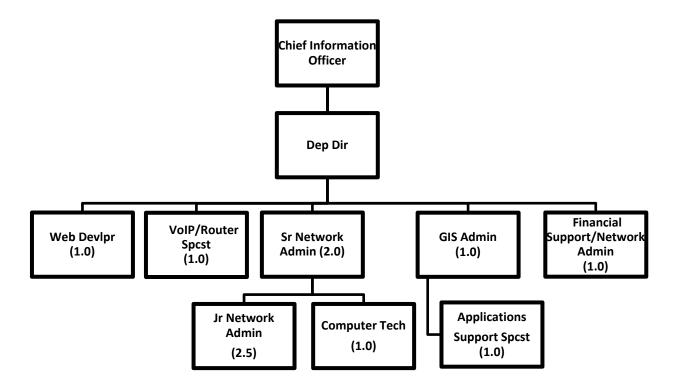


Department Detail											
	<act< th=""><th colspan="4">ual></th><th><</th><th colspan="2"><-Adj Budget-></th><th><-Proposed-></th></act<>			ual>				<	<-Adj Budget->		<-Proposed->
	FY2013		FY2014		FY2015		FY2016		FY2017		FY2018
Expenditure											
Personnel	\$564,970	\$	560,191	\$	737,101	\$	817,579	\$	1,002,373	\$	1,033,026
Expenses	\$158,199	\$	183,625	\$	226,278	\$	232,656	\$	279,970	\$	321,553
Capital Equipment	\$139,123	\$	119,257	\$	170,817	\$	195,023	\$	125,000	\$	125,000
Benefits	\$83,746	\$	83,241	\$	122,917	\$	143,336	\$	175,128	\$	166,578
Total	\$946,038		\$946,314		\$1,257,113		\$1,388,594		\$1,582,471		\$1,646,157
% Incr			0.03%		32.84%		10.46%		13.96%		4.02%
Personnel											
Full-Time	7		8		9		11		12		12
Part-Time	1		0		0		0		1		1
Total	8		8		9		11		13		13

FY2017 Accomplishments - Information Technology		
Outcome #1 - Improve City-Wide IT Infrastructure	<u>Target</u>	<u>Result</u>
strategy 1: Install Voice over IP: Public Works; Crafts St and Eliot St Buildings		
Elliot Street - Correct internal infrastructure; some sites exceed ethernet	Aug 2016	Completed
ecommendations; corrective work to be completed.	•	·
rocure equipment for Elliot Street, both buildings.	Oct 2016	Completed
Configure phones, hunt lines, software, smart phone interface, training. Crafts Street - Correct internal infrastructure; some sites exceed ethernet	Nov 2016	Completed
ecommendations; corrective work to be completed.	Oct 2016	Completed
rocure equipment for Elliot Street, both buildings.	Nov 2016	Completed
Configure phones, hunt lines, software, smart phone interface, training.	Dec 2016	Completed, December 2016
strategy 2: Convert Fire Stations 1 & 2 to VoIP	DCC 2010	completed, Determoel 2010
Correct internal infrastructure - rewiring by our Wires Division.	Jul 2016	Summer 2017
Procure equipment, configure.	Aug 2016	Summer 2017
So live.	Aug 2016	Summer 2017
trategy 3: Wireless Access Availability in Select Public Areas and Every Playground		
Adjacent to a School		
suild a virtual local area network (VLAN) spanning City and School networks.	Ongoing	Still in discussion mode, school still using some RCN fib
Round One: Newton Centre using Health Dept fiber connections.	Underway	Completed
Round One: Waban Centre using City Fiber at Waban Public Library.	Jul 2016	Goal is 1st quarter of 2017
tound One: Lower Falls - via the Community Centre.	Jul 2016	Completed
ound One: Nonantum using City Fiber at Nonantum Public Library.	Aug 2016	Goal is 2nd quarter of 2017
ound One: Newton Highlands via City Fiber at Hyde	Sep 2016	Goal is 2nd quarter of 2017
ound One: Work With Schools to consider delivery to Elem School fields.	Underway	Still in discussion mode, school still using some RCN fib
Outcome #2 - Software lansen Replacement System - Cloud-based, GIS-centric, Mobile Device Friendly	<u>Target</u>	<u>Result</u>
ite visits and end user interviews.	Apr 2016	Completed
Vrite our RFP.	Apr 2016	Completed
iid process.	May 2016	Completed
leview responses, interview candidates.	, Jun 2016	Completed
ward and contract.	Jun 2016	Complete November 2016
mplementation plan.	Jul 2016	Implementation has begun as of December 2016
Strategy 2: Expand Internal Search Tools - Indexing Tool for Internal Department-Based		
Data		
Nready in Law and City Council, add the following departments: HR, Executive and Planning and Development.	Jul 2016	Planning added, HR in process, Executive will be next
Outcome #3 - Security	<u>Target</u>	<u>Result</u>
Strategy 1: Vulnerability Testing Follow Ups - Outside Contractor Tests our Firewalls, Routers and Searches for Weaknesses, Outdated Software, Forgotten Equipment, etc.		
		Penetration testing against Police and Phishing test agai
nnual penetration testing at City Hall and Police HQ.	Fall 2016	all City users
Strategy 2: Admin training and Security Awareness for all Employees	0	
Use various methods of information delivery - email, phone calls, posters. Strategy 3: Purchase PWNie Express Software Device to Monitor our Network, Report Occurrences to a Cloud-Based Central System and Shutdown Access Systems that Try to Damage our Systems.	Ongoing	We use the Mailperson to broadcast awareness
urchase equipment and subscription for City Hall.	Apr 2016	Completed
Configure device and training.	May 2016	Completed
o live.	Jul 2016	Completed
utcome #4 - Process Improvement	Target	Result
trategy 1: eGov - Expand Online Permitting to Fire Prevention eview requirements, populate tables, customize forms.	Jun 2016	Not yet bogus
, , , , , , , , , , , , , , , , , , , ,	Jul 2016 Jul 2016	Not yet begun
esting and training. 60 live.		Not yet begun
trategy 2: Community Plus - Enable Plan Reviews - Input from ISD, Engineering, Police,	Jul 2016	Not yet begun
trategy 2: Community Prior - Enable Plan Reviews - Input from 15D, Engineering, Police, ire, Planning, Clerk, DPW eview requirements, build hierarchy, create accounts, populate tables, and begin to		
, , , , , , , , , , , , , , , , , , , ,	Aug 2016	Not yet begun
	Aug 2016	Not yet begun
	Aug 2010	, 0
esting and training.	Sep 2016	
ustomize forms. esting and training. So live.	Sep 2016	Not yet begun
esting and training. So live. Dutcome #5 - User Support & Training trategy 1: Administration Training for Staff	<u>Target</u>	<u>Result</u>
esting and training. to live. Outcome #5 - User Support & Training		

FY2018 Desired Outcomes - Information Technology	
Outcome #1 - Improve City-Wide Infrastructure	Target
Strategy 1: Move City Hall Data Center to EOC	
Design a plan that does not interfere with business.	Ongoing
Test, revise and conduct additional testing.	Ongoing
Move smaller servers over one at a time; evaluate, respond and update.	July 2017
Migration of our Storage Area Network (SAN) and all virtual servers.	August 2017
Outcome #2 - Software	<u>Target</u>
Strategy 1: Enhance Field Use of our Permit System	
Setup tablets with reliable internet for use anywhere in the city.	July 2017
Reach out to additional permitting departments.	Ongoing
Strategy 2: Implement Granicus' Speak Up	
Nork with Granicus to setup backend.	July 2017
Go live, initially with a low impact project.	August 2017
Outcome #3 - Security	Target
Strategy 1: Penetration Testing	
PenTesting over the internet.	August 2017
PenTesting over wireless.	September 2017
Review results, adjust accordingly.	October 2017
Strategy 2: Security Cameras at Senior Center	
3 Cameras for 300 Walnut Street.	August 2017
Strategy 3: Continue Training and Awareness	
Continue awareness training through mailperson messages.	Ongoing
Consider another phishing test.	Ongoing
Maintain all critical access points with current patches and updates.	Ongoing
Outcome #4 - Process Improvement	<u>Target</u>
Strategy 1: PeopleGIS - Continue Module-Based Implementation and Roll Out	
Populate tables.	April 2017
Create and modify forms.	May 2017
Fraining.	June 2017
Go live.	July 2017
Strategy 2: Financial System Assessment	
Analyze financial systems to ensure we are meeting the needs of the city efficiently.	Ongoing
Strategy 3: Permitting System Assessment	- 0. 0
Enhance permitting system to ensure we are meeting the needs of the city efficiently.	Ongoing
Outcome #5 - User Support & Training	<u>Target</u>
Strategy 1: VoIP to Police, Library, ISD, Clerk, Assessing, DPW & Engineering	
Rewire areas requiring suitable network cabling to nearest data closet.	August 2017
Procure and "pin" new phones.	August 2017
Place on Desks, run through training.	October 2017
Go live.	October 2017
Strategy 2: IT Staff Training	
Ongoing training in administration of email, FOIA, SAN, virtualization, VoIP.	Ongoing
Strategy 3: End User Training	J. J
Offer training for Microsoft Office, Civica and GIS.	Ongoing
Strategy 4: Onboarding, Skill Checking Prior to Job Authorization	
Begin campaign to encourage computer skills testing for all new hires.	July 2017
Nork with HR to create a statement, set minimum scores by job position.	August 2017
Work with all department to increase awareness of skill checking capability.	September 2017
work with an acpartment to increase awareness of skill checking capability.	September 2017

INFORMATION TECHNOLOGY



FUND: 01 - GENERAL FUND

DEPARTMENT: 111 - INFORMATION TECHNOLOGY

CITY OF NEWTON BUDGET DEPARTMENT LEGAL LEVEL OF CONTROL

	ACTUAL 2015	ACTUAL 2016	AMENDED 2017	YTD 4/4/2017	RECOMMENDED 2018	CHANGE 2017 to 2018
INFORMATION TECHNOLOGY SUMMARY						
51 - PERSONAL SERVICES	731,803	816,365	1,002,373	664,106	1,033,026	30,653
52 - EXPENSES	226,778	232,656	279,970	233,059	321,553	41,583
58 - DEBT AND CAPITAL	112,217	119,642	125,000	118,083	125,000	0
57 - FRINGE BENEFITS	122,438	143,228	175,128	116,065	166,578	-8,550
TOTAL DEPARTMENT	1,193,237	1,311,891	1,582,471	1,131,313	1,646,157	63,686
IT ADMINISTRATION						
51 - PERSONAL SERVICES	231,348	227,889	227,398	191,128	270,470	43,072
52 - EXPENSES	9,375	7,955	12,870	11,850	12,570	-300
57 - FRINGE BENEFITS	39,808	40,521	41,804	30,774	43,964	2,160
TOTAL IT ADMINISTRATION	280,531	276,365	282,072	233,753	327,004	44,932
MICRO/NETWORK SVS						
51 - PERSONAL SERVICES	404,565	489,255	673,179	398,248	658,005	-15,174
52 - EXPENSES	12,000	13,968	16,187	16,187	13,500	-2,687
58 - DEBT AND CAPITAL	112,217	119,642	125,000	118,083	125,000	0
57 - FRINGE BENEFITS	65,022	84,705	114,733	71,751	103,299	-11,435
TOTAL MICRO/NETWORK SVS	593,804	707,570	929,099	604,270	899,803	-29,296
SYSTEMS PROGRAMMING						
52 - EXPENSES	187,532	192,331	230,313	184,432	274,883	44,570
TOTAL SYSTEMS PROGRAMMING	187,532	192,331	230,313	184,432	274,883	44,570
GIS ADMINISTRATION						
51 - PERSONAL SERVICES	95,890	99,221	101,797	74,730	104,551	2,754
52 - EXPENSES	17,871	18,402	20,600	20,589	20,600	0
57 - FRINGE BENEFITS	17,608	18,002	18,591	13,540	19,316	725
TOTAL GIS ADMINISTRATION	131,370	135,624	140,988	108,859	144,467	3,479

FUND: 01 - GENERAL FUND

DEPARTMENT: 111 - INFORMATION TECHNOLOGY

CITY OF NEWTON BUDGET DEPARTMENTAL DETAIL

	_	ACTUAL FY2015	ACTUAL FY2016	AMENDED 2017	YTD 4/4/2017	RECOMMENDED 2018	CHANGE 2017 to 2018
111 - INFORMATIO	ON TECHNOLOGY						
0111101 - IT AD	MINISTRATION						
PERSONAL S	ERVICES						
511001	FULL TIME SALARIES	229,498	218,041	225,448	164,983	231,353	5,905
511101	PART TIME < 20 HRS/WK	0	7,998	0	25,270	35,617	35,617
514001	LONGEVITY	1,850	1,850	1,950	875	3,500	1,550
TOTAL	PERSONAL SERVICES	231,348	227,889	227,398	191,128	270,470	43,072
EXPENSES							
5274	RENTAL - EQUIPMENT	1,739	1,739	1,778	1,087	1,830	52
5319	TRAINING EXPENSES	3,438	4,628	5,000	5,000	5,000	0
53401	TELEPHONE	144	144	278	69	200	-78
53402	CELLULAR TELEPHONES	495	460	1,119	1,119	1,200	81
5341	POSTAGE	9	1	20	3	20	0
5342	PRINTING	23	9	20	0	20	0
5420	OFFICE SUPPLIES	2,772	0	4,000	3,918	3,000	-1,000
5592	BOOKS/MANUALS/PERIOD	372	380	400	400	400	0
5710	VEHICLE USE REIMBURSE	0	0	20	20	0	-20
5711	IN-STATE CONFERENCES	238	0	60	60	300	240
5730	DUES & SUBSCRIPTIONS	145	594	175	175	600	425
TOTAL	EXPENSES	9,375	7,955	12,870	11,850	12,570	-300
FRINGE BENE	FITS						
57DENTAL	DENTAL INSURANCE	598	507	517	378	538	21
57HLTH	HEALTH INSURANCE	35,917	36,463	37,876	27,678	39,390	1,514
57LIFE	BASIC LIFE INSURANCE	113	113	114	76	114	0
57MEDA	MEDICARE PAYROLL TAX	3,180	3,438	3,297	2,642	3,922	625
TOTAL	FRINGE BENEFITS	39,808	40,521	41,804	30,774	43,964	2,160
TOTAL IT AL	- DMINISTRATION	280,531	276,365	282,072	233,753	327,004	44,932

CITY OF NEWTON BUDGET DEPARTMENTAL DETAIL

		ACTUAL	ACTUAL	AMENDED	YTD	RECOMMENDED	CHANGE
	=	FY2015	FY2016	2017	4/4/2017	2018	2017 to 2018
0111102 - MICR	O/NETWORK SVS						
PERSONAL S	ERVICES						
511001	FULL TIME SALARIES	401,293	486,605	639,029	393,858	652,455	13,426
511101	PART TIME < 20 HRS/WK	0	0	30,000	0	0	-30,000
514001	LONGEVITY	1,650	1,650	2,650	2,650	4,550	1,900
515006	VACATION BUY BACK	622	0	0	740	0	0
515102	CLEANING ALLOWANCE	1,000	1,000	1,500	1,000	1,000	-500
TOTAL	PERSONAL SERVICES	404,565	489,255	673,179	398,248	658,005	-15,174
EXPENSES							
52401	OFFICE EQUIPMENT R-M	12,000	13,968	13,500	13,500	13,500	0
5585	COMPUTER SUPPLIES	0	0	2,687	2,687	0	-2,687
TOTAL	EXPENSES	12,000	13,968	16,187	16,187	13,500	-2,687
FRINGE BENE	FITS						
57DENTAL	DENTAL INSURANCE	2,174	2,306	2,175	1,872	2,048	-127
57HLTH	HEALTH INSURANCE	53,060	70,011	92,552	59,287	82,859	-9,693
57LIFE	BASIC LIFE INSURANCE	137	113	114	76	114	0
57MEDA	MEDICARE PAYROLL TAX	5,615	6,526	9,325	5,384	7,729	-1,597
57OPEB	OPEB CONTRIBUTION	4,036	5,748	10,568	5,132	10,549	-19
TOTAL	FRINGE BENEFITS	65,022	84,705	114,733	71,751	103,299	-11,435
DEBT AND CA	APITAL						
58511	COMPUTER SERVER HAR	1,955	15,383	10,000	9,898	10,000	0
585111	PC HARDWARE-ADMIN	47,615	49,460	52,851	51,685	50,000	-2,851
58512	COMPUTER SERVER SOF	47,175	49,322	47,149	43,147	50,000	2,851
585121	PC SOFTWARE-ADMIN	15,471	5,477	15,000	13,354	15,000	0
TOTAL	DEBT AND CAPITAL	112,217	119,642	125,000	118,083	125,000	0
TOTAL MICI	RO/NETWORK SVS	593,804	707,570	929,099	604,270	899,803	-29,296
0111103 - SYST	EMS PROGRAMMING						
EXPENSES							
52401A	GRANICUS/CIVIC R&M	0	0	0	0	30,000	30,000
52401B	SAN HARDWARE M&S	0	0	0	0	20,000	20,000
52401C	SAN SOFTWARE M&&S	0	0	0	0	12,000	12,000
52410	SOFTWARE MAINTENANC	51,245	52,107	94,416	49,236	60,000	-34,416
52410A	REVERSE 911 SOFTWARE	64,478	64,478	54,783	54,783	54,783	0
52410F	MS OUTLOOK SOFTWARE	36,271	38,172	39,534	39,534	40,000	466
52410H	FOIA SOFTWARE SUB & M	0	0	0	0	10,000	10,000
52410I	HYRELL SOFTWARE SUB&	0	0	0	0	9,600	9,600
53404	INTERNET ACCESS CHAR	28,345	24,955	30,267	30,267	24,500	-5,767
5585	COMPUTER SUPPLIES	7,192	12,619	11,313	10,612	14,000	2,687
TOTAL	EXPENSES	187,532	192,331	230,313	184,432	274,883	44,570
TOTAL SYS	TEMS PROGRAMMING	187,532	192,331	230,313	184,432	274,883	44,570

CITY OF NEWTON BUDGET DEPARTMENTAL DETAIL

	_	ACTUAL FY2015	ACTUAL FY2016	AMENDED 2017	YTD 4/4/2017	RECOMMENDED 2018	CHANGE 2017 to 2018
0111104 - GIS /	ADMINISTRATION						
PERSONAL S	SERVICES						
511001	FULL TIME SALARIES	95,115	98,346	100,922	73,855	103,551	2,629
514001	LONGEVITY	775	875	875	875	1,000	125
TOTAL	PERSONAL SERVICES	95,890	99,221	101,797	74,730	104,551	2,754
EXPENSES							
52410	SOFTWARE MAINTENANC	13,398	15,576	16,000	16,000	16,000	0
5319	TRAINING EXPENSES	561	456	0	0	600	600
5585	COMPUTER SUPPLIES	3,912	2,369	4,600	4,589	4,000	-600
TOTAL	EXPENSES	17,871	18,402	20,600	20,589	20,600	0
FRINGE BEN	EFITS						
57HLTH	HEALTH INSURANCE	16,300	16,613	17,115	12,507	17,800	685
57MEDA	MEDICARE PAYROLL TAX	1,308	1,389	1,476	1,033	1,516	40
TOTAL	FRINGE BENEFITS	17,608	18,002	18,591	13,540	19,316	725
TOTAL GIS	ADMINISTRATION	131,370	135,624	140,988	108,859	144,467	3,479
TOTAL INFOR	MATION TECHNOLOGY	1,193,237	1,311,891	1,582,471	1,131,313	1,646,157	63,686

FUND: 01 - GENERAL FUND

DEPARTMENT: 111 - INFORMATION TECHNOLOGY

CITY OF NEWTON BUDGET PERSONAL SERVICES SUMMARY

			2018				
ACCOUNT	POSITION TITLE	RANGE	FTE	SALARY	RANGE	FTE	SALARY
511001	APPLICATIONS SPECIALIST	S6-9	1.0	54,472	S6-10	1.00	56,107
	CIO	H14-13	1.0	118,657	H14-15	1.00	122,224
	COMPUTER TECHNICIAN	S6-3	1.0	46,294	S6-3	1.00	46,294
	DEPUTY DIR, IT	H11-18	1.0	105,927	H11-20	1.00	109,128
	FIN SUPPORT/NETWORK ADM	H10-9	1.0	86,711	H10-11	1.00	89,312
	GIS ADMIN	H10-19	1.0	100,535	H10-21	1.00	103,551
	JR NETWORK ADMINISTRATO	H5-3	1.0	53,782	H5-5	1.00	55,386
	JR. NETWORK ADMINISTRAT	H5-3	1.0	53,782	H5-5	1.00	55,386
	SR. NETWORK ADMINISTRAT	H10-2	2.0	174,366	H10-2	2.00	177,253
	VOIP/ROUTER SPECIALIST	H10-18	1.0	99,049	H10-20	1.00	102,043
	WEB DEVELOPER	H7-8	1.0	68,622	H7-10	1.00	70,675
	Account Totals:		12.0	962,198		12.00	987,359
511101	JR. NETWORK ADMINISTRAT	QQQ	0.5	34,580	QQQ	0.49	35,617
	Account Totals:		0.5	34,580		0.49	35,617
	Report Totals:		12.5	996,778		12.49	1,022,976