

# Capital Recommendations and Funding Sources

## Section 2

**Capital Recommendations and Funding Sources  
Sectional Index**

Contents	Page
2018 Recommendations by Funding Source	
General Fund	2-01
Community Preservation Fund	2-04
RTS Enterprise Fund	2-04
Sewer Enterprise Fund	2-05
Water Enterprise Fund	2-05
2018 - 2022 Tier One Recommendations	
General Fund/Community Preservation Fund	2-10
Recycling and Transfer Station Enterprise Fund	2-13
Sewer Enterprise Fund	2-14
Water Enterprise Fund	2-15
General Fleet Program	2-16
Enterprise Fleet Program	2-17
2013 - 2018 Capital Funding Sources	
General Fund	2-20
Community Preservation Fund	2-29
RTS Enterprise Fund	2-32
Sewer Enterprise Fund	2-35
Water Enterprise Fund	2-37
Recap of All Funding Sources	2-40

**Capital Recommendations and Funding Sources  
Sectional Index**

Contents	Page
Debt Financing	
Debt Service to Revenue Table (Including Recommended CIP)	2-41
Debt Service as a Percentage of Revenue Chart	2-42
Proposed Funding by Debt 2018 - 2022	
General Fund within the Levy Limit	2-43
Community Preservation Fund	2-44
RTS Enterprise Fund	2-45
Sewer Enterprise Fund	2-46
Water Enterprise Fund	2-47
Debt Exclusion	2-48
Open Authorizations	2-49
Long Term Debt Service Obligations Table 2016 -2034	2-50
Long Term Debt Service Obligations Chart 2016 -2034	2-51
Schedule of Issued Long Term Debt	2-52

**FY2018  
Capital Budget  
Funding Recommendations**

Project	Code**	Submitting Department	2018 Request	Cash Capital All Tiers	Debt - All Tiers	Operating Budget	Other	Note	Page
Non-Public Safety Data Center Servers and Storage Units	R	Finance	145,000	145,000					3-03
Public Safety Complex/Station 2	PM	Town Manager	3,750,000	250,000			3,500,000	Total project estimate \$63,590,000; design funding Fall 2017; Town vote TBD.	3-25
Bunker Gear	N	Fire	167,872	167,872				Health and safety concerns - new five-year plan.	3-33
School Technology Replacement	R	School	463,500	463,500				Request for FY2018 increased from prior year submission for FY2018.	3-58
Full-Day Kindergarten Space Study	NQ	School	50,000				50,000	Not capital may be a special warrant article.	3-38
School Furniture	R	School	45,000	45,000					3-62
Pollard Phased Improvements Feasibility Study	N	School	65,000				65,000	On hold by request.	3-52
School Copier Replacement	R	School	46,790	46,790					3-54
High School Classroom Expansion and Other Improvements^	PM	School	9,400,000	400,000	9,000,000			Feasibility study underway; several other stand alone project requests have been consolidated as one project (A Gym Improvements; Boiler Replacements; Chiller Replacement; Locker Reconfiguration).	3-40
Energy Efficiency Upgrade Improvements	PM	Public Facilities	57,000	57,000					3-75
Pollard Blue & Green Gym Upgrades	P	Public Facilities	45,000	45,000				Total project estimate is \$829,610.	3-79
Pollard Bathroom Upgrades	PM	Public Facilities	650,000	650,000				Fund if the High School requests are consolidated.	3-77

**FY2018  
Capital Budget  
Funding Recommendations**

Project	Code**	Submitting Department	2018 Request	Cash Capital All Tiers	Debt - All Tiers	Operating Budget	Other	Note	Page
Fuel Island Relocation and Upgrade#	PM	DPW	1,320,000		1,320,000			Debt to be paid by GF & Enterprise Funds.	3-93
DPW Seasonal Storage Facility @ RTS	M	Town Manager	550,000				550,000	Project estimate \$6,860,000 (percent paid by enterprise funds); may be funded by debt exclusion.	3-97
Public Works Infrastructure Program	R	DPW	1,762,000	1,262,000	500,000				3-101
Specialty Equipment	M	DPW	30,000	30,000				Field Renovator; this purchase would be an addition to inventory, not a replacement.	3-99
Time Clock System	N	DPW	72,000				72,000	May be submitted as a financial warrant article.	3-107
Traffic Improvements	N	DPW	249,000	249,000					3-109
Memorial Park Buildings and Grounds Improvements	PM	Memorial Park	5,900,000				5,900,000	Feasibility study underway; funding may be a combination of cash and debt.	3-142
Replace Unit 12	R	DPW Highway	38,277	38,277				The present vehicle is a Ford Escape Hybrid.	3-17
Replace Unit 15	R	DPW Parks	35,481	35,481				The present vehicle is a Ford Taurus.	3-17
Replace Unit 48	R	DPW Highway	83,561	83,561				The present vehicle is a Ford F450.	3-17
Replace Unit 52	R	DPW Highway	34,729	34,729				The present vehicle is a Ford Escape Hybrid.	3-17
Replace Unit 129	R	DPW Highway	12,016			12,016		The present vehicle is a Custom Flatbed Trailer.	3-17
Replace Unit 328	R	DPW Parks	5,351			5,351		The present vehicle is a Cross County Utility Trailer.	3-17
Replace Unit 336	R	DPW Parks	98,747	98,747				The present vehicle is a Toro Lawnmower Tractor.	3-17

Town of Needham  
Capital Improvement Plan  
January 2017

**FY2018  
Capital Budget  
Funding Recommendations**

Project	Code**	Submitting Department	2018 Request	Cash Capital All Tiers	Debt - All Tiers	Operating Budget	Other	Note	Page
Replace Front Line Vehicle	R	Police	32,544			32,544		The present vehicle is a Ford Explorer.	3-17
Replace Front Line Vehicle	R	Police	32,544			32,544		The present vehicle is a Ford Explorer.	3-17
Replace Front Line Vehicle	R	Police	32,544			32,544		The present vehicle is a Ford Explorer.	3-17
Replace Front Line Vehicle	R	Police	32,544			32,544		The present vehicle is a Ford Explorer.	3-17
Replace Animal Control Vehicle	R	Police	43,942			43,942		The present vehicle is a Ford F250.	3-17
Replace Unit 704	R	Public Facilities	31,222	31,222				The present vehicle is a Ford Econ Van E250.	3-17
Replace Unit PV	R	School	33,861	33,861				The present vehicle is a Ford Econ Van E250.	3-17
Replace Ambulance Unit R2	R	Fire	224,677	224,677				The present vehicle is a Ford E450 Ambulance.	3-17
Replace Rescue Boat & Trailer	R	Fire	22,737				22,737	Gator Rescue Boat - May be funded by a grant/donation.	3-17
Replace Unit Van 3	R	School	32,875	32,875				The present vehicle is a Ford E150.	3-17
Replace Unit Van 6	R	School	32,875	32,875				The present vehicle is a Ford E150.	3-17
Rosemary Recreation Complex	P	Park& Recreation		800,000	3,000,000			\$3,800,000 to be funded by General Fund resources.	3-126
<b>General Fund</b>			25,628,689	5,257,467	13,820,000	191,485	10,159,737		

**FY2018  
Capital Budget  
Funding Recommendations**

Project	Code**	Submitting Department	2018 Request	Cash Capital All Tiers	Debt - All Tiers	Operating Budget	Other	Note	Page
Central Avenue School Walking Trails	N	School	210,000	210,000					3-36
Athletic Facility and Public Recreation Improvements	R	DPW	285,000	285,000				Cricket Field Improvements	3-95
Water Quality Improvements (non-potable water)	P	DPW	2,400,000	2,400,000				Rosemary Lake sediment removal.	3-153
Rosemary Recreation Complex	P	Park& Recreation	15,800,000		12,000,000			Balance to be funded by a combination of General Fund resources.	3-126
Trail Improvement Project - Needham Reservoir	PM	Park& Recreation	925,000	850,000				Balance to be funded by Water Enterprise resources.	3-129
Open Space Purchase	P	Park& Recreation	1,000,000				1,000,000	No property has been identified for immediate purchase.	3-124
<b>Community Preservation Fund</b>			20,620,000	3,745,000	12,000,000		1,000,000		
Replace Unit 80	R	DPW/RTS	211,256	211,256				The present vehicle is an International truck.	3-17
Replace Unit 67	R	DPW/RTS	43,086	43,086				The present equipment is a Vermeer Grinder.	3-17
Property Improvements	M	DPW/RTS	290,000	290,000					3-144
Transfer Station Floor Replacement	N	DPW/RTS	166,000	166,000					3-147
<b>Recycling and Transfer Station Enterprise Fund</b>			710,342	710,342					

Town of Needham  
Capital Improvement Plan  
January 2017

**FY2018  
Capital Budget  
Funding Recommendations**

Project	Code**	Submitting Department	2018 Request	Cash Capital All Tiers	Debt - All Tiers	Operating Budget	Other	Note	Page
Sewer Pump Station Improvements - Alden Road^	P	DPW/Sewer	590,000		600,000			May be eligible for special financing through SRS or MWRA.	3-155
<b>Sewer Enterprise Fund</b>			590,000		600,000				
Replace Unit 20	R	DPW/Water	34,729	34,729				The present vehicle is a Ford Escape Hybrid.	3-17
Replace Unit 24	R	DPW/Water	29,345	29,345				The present vehicle is a Ford F150.	3-17
Water Distribution System Improvements^	M	DPW/Water	1,261,750		1,300,000			May be eligible for special financing through SRS or MWRA.	3-165
Water Service Connections	R	DPW/Water	200,000	200,000					3-168
Water Specialty Equipment	N	DPW/Water	132,000	132,000				Unit 115	3-170
Needham Reservoir Trail	PM	Park & Recreation		75,000				This is a CPA funded project, but \$75,000 is to be funded by the water enterprise for work related to the Enterprise.	3-129
<b>Water Enterprise Fund</b>			1,657,824	471,074	1,300,000				
<b>Total</b>			49,206,855	10,183,883	27,720,000	191,485	11,159,737		



**FY2018  
 Capital Budget  
 Funding Recommendations**

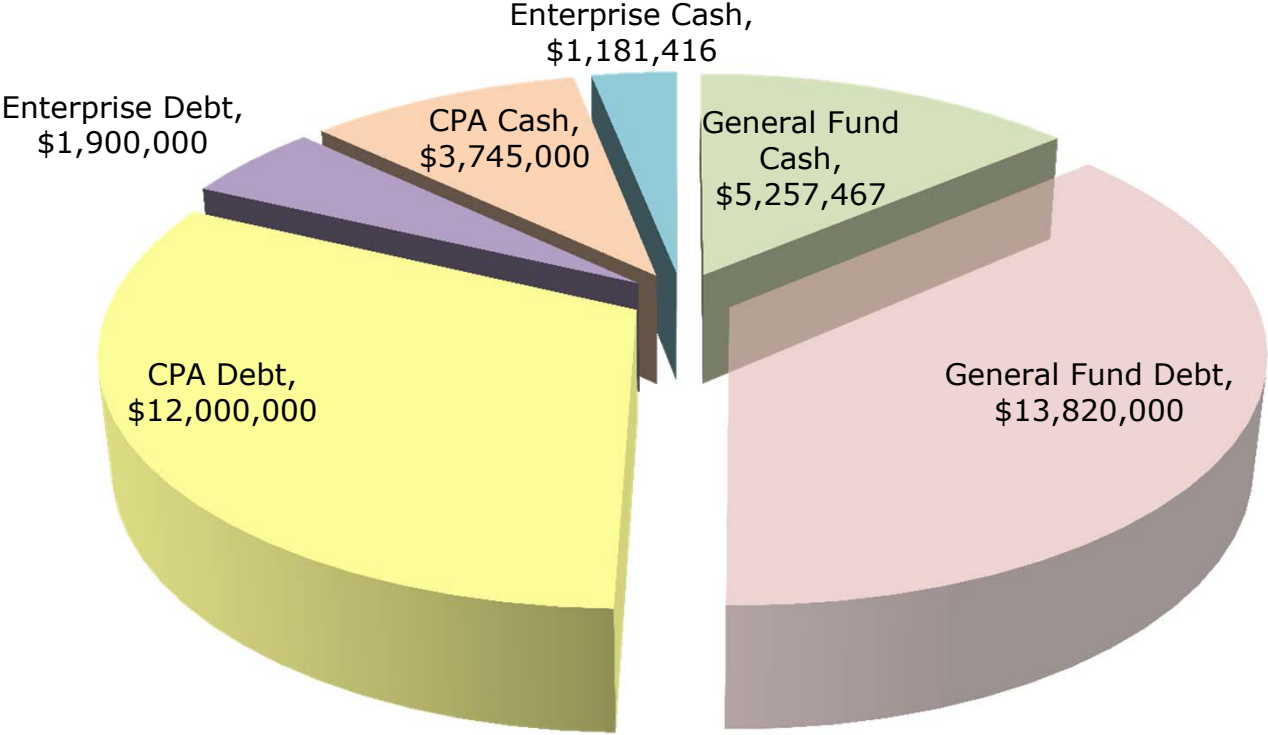
Project	Code**	Submitting Department	2018 Request	Cash Capital All Tiers	Debt - All Tiers	Operating Budget	Other	Note	Page
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^ Funding recommendation includes allowance for debt issuance

**\*\* Codes**

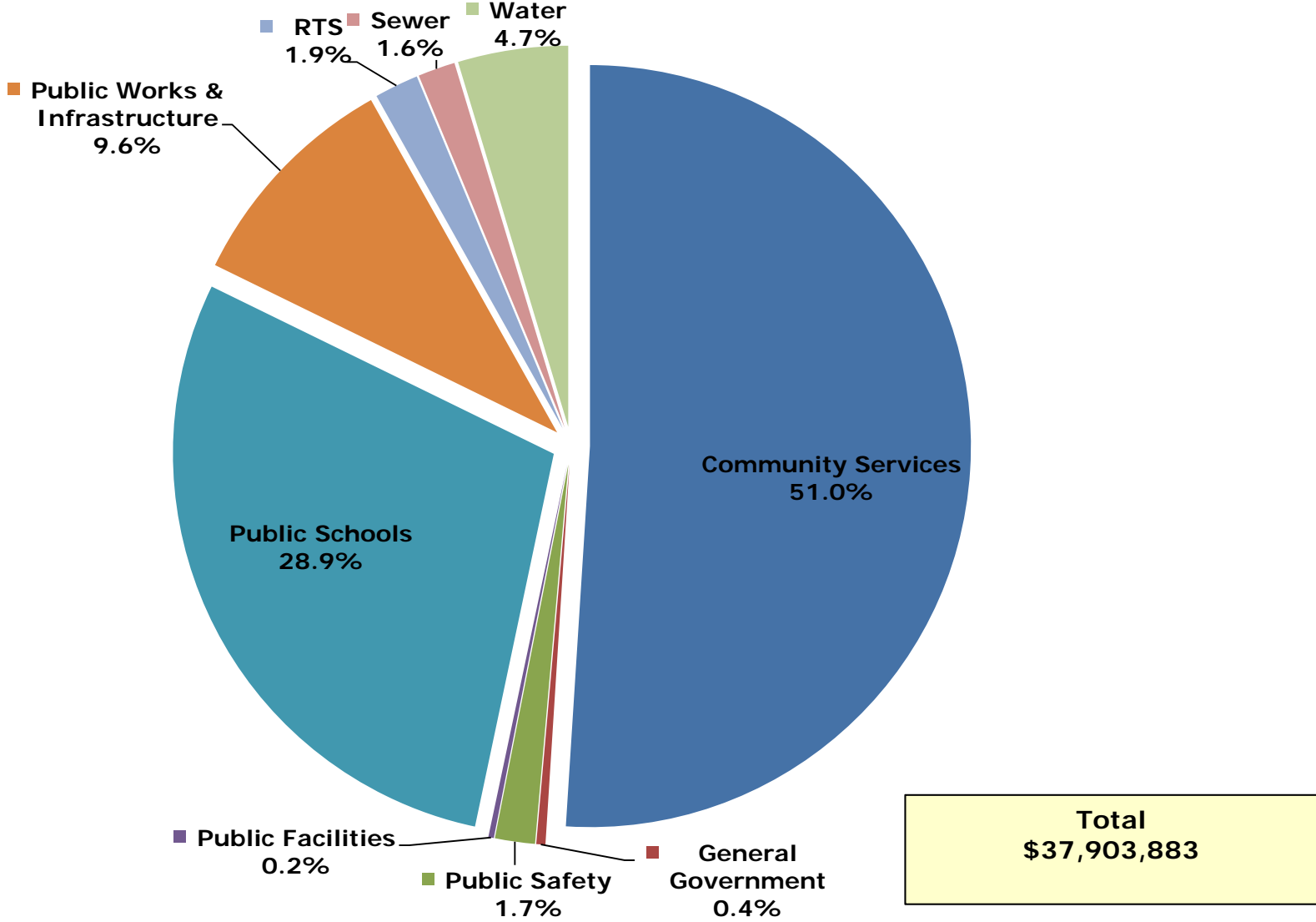
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|---|---|
| B = Transfer request and possible funding to operating budget   | P = Project request has appeared in previous CIP's.   |
| C = Recommendation is combined with other requests  | Q = Request does not qualify as a capital submission  |
| D = Recommendation is deferred or on hold pending other actions.  | R = Request is a regularly occurring capital expense. |
| E = Emergency approval  | S = No recommendation; under study                    |
| F = Funded appropriation outside the capital plan   | U = Urgent request based on identified conditions     |
| I = Project submission is incomplete or waiting additional information.                                       | Y = Funded  |
| M = Submission has been modified  |   |
| N = New submission with this CIP.   |   |
| O = Request does not qualify as capital, may be considered under the operating budget/special warrant article |   |

# FY2018 Proposed Capital by Funding Source

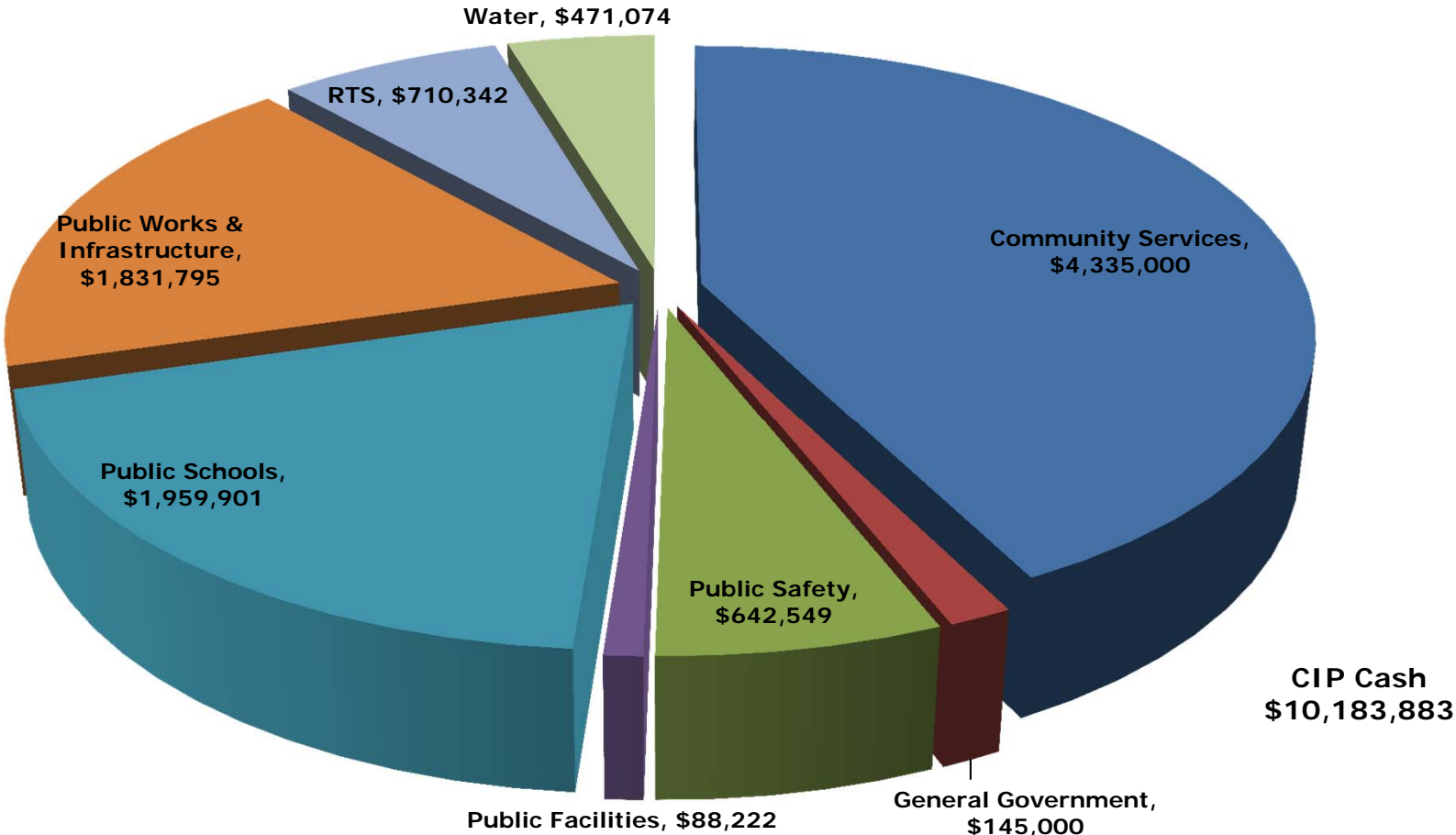


General Fund Cash    General Fund Debt    CPA Debt    Enterprise Debt    CPA Cash    Enterprise Cash

### FY2018 Proposed Capital by Function



**FY2018 Proposed Cash Capital by Function**



Town of Needham  
Capital Improvement Plan  
January 2017

Five Year Capital Improvement Plan  
Preliminary Tier One Recommendations - All Funding Sources  
FY2018 - FY2022

Project	Code*	Function	Cat*	2018 Department Request	Tier One Recommendation	2019 Department Request	Tier One Recommendation	2020 Department Request	Tier One Recommendation	2021 Department Request	Tier One Recommendation	2022 Department Request	Tier One Recommendation	Five Year Request	Five Year Tier One	Cash	Debt	Other	Page
<b>General Fund/Community Preservation Fund</b>																			
Full-Day Kindergarten Space Modification	MB	Schools	2					50,000						50,000					3-67
Accounting and Revenue Software Package Replacement	P	General	1							1,100,000	1,100,000			1,100,000	1,100,000	1,100,000			3-11
Asa Small Field Renovation	P	Public Works	2			141,000	141,000							141,000	141,000			141,000	3-111
CPA/ASF Athletic Facility and Public Recreation Improvements	M	Community	3	285,000	285,000	570,000	207,000	2,500,000	2,500,000	450,000		134,234		3,939,234	2,992,000			2,992,000	3-95
Athletic Fields Master Plan	PG	Community	3							75,000				75,000					3-140
Bunker Gear	N	Public Safety	1	167,872	167,872	37,000	37,000	38,110	38,110	39,253	39,253	40,430	40,430	322,665	322,665	322,665			3-33
Center at the Heights Computer Lab	P	Community	1					50,000	50,000					50,000	50,000	50,000			3-09
CPA Central Avenue School Walking Trails	N	Schools	2	210,000	210,000									210,000	210,000			210,000	3-36
Cricketer Field Building Renovations	M	Community	2					154,000		618,000				772,000					3-134
DPW Complex	M	Public Works	2							2,950,000				2,950,000					3-117
DPW Seasonal Storage Facility @ RTS	M	Public Works	2	550,000		6,310,000								6,860,000					3-97
CPA Drain System Improvements - Water Quality (EPA)	M	Public Works	3	2,400,000	2,400,000	118,000		250,000		1,000,000				3,768,000	2,400,000			2,400,000	3-153
Energy Efficiency Upgrade Improvements	M	Facilities	2	57,000	57,000	15,000	15,000	58,000		100,000				230,000	72,000	72,000			3-75
Facility Assessment for Sustainable Building Management	MB	Schools	2			85,165								85,165					3-85
Firearm Replacement	M	Public Safety	1					31,000	31,000					31,000	31,000	31,000			3-29
Fuel Island Relocation and Upgrade	M	Public Works	2	1,320,000	1,320,000									1,320,000	1,320,000		1,320,000		3-93
Full Day Kindergarten Space Study	NQB	Schools	2	50,000										50,000					3-38
High School A Gym Upgrade	PC	Schools	2	182,000		64,000		30,000						276,000					3-43
High School Athletic Locker Reconfiguration & Addition	MC	Schools	1					45,200						45,200					3-49
High School Boiler Replacement	MC	Schools	2					840,000						840,000					3-45
High School Chiller	NC	Schools	2	60,000		418,849								478,849					3-47
High School Classroom Expansion	MC	Schools	2	414,728		6,855,372								7,270,100					3-40
Library Furniture Replacement	N	Community	1			45,320	45,320	97,920		84,000		57,000		284,240	45,320	45,320			3-119
Library RFID Conversion Project	M	Community	1			127,200	127,200							127,200	127,200	127,200			3-121
Memorial Park Buildings and Grounds Improvements	M	Community	2	5,900,000										5,900,000					3-142
Multi-Function Printer Devices	P	General	1							35,600	35,600	35,600	35,600	71,200	71,200	71,200			3-13
Non-Public Safety Data Center Servers and Storage Units	P	General	1	145,000	145,000	180,000	180,000							325,000	325,000	325,000			3-03
Open Space Purchase	M	Community	3	1,000,000										1,000,000					3-124

Town of Needham  
Capital Improvement Plan  
January 2017

**Five Year Capital Improvement Plan  
Preliminary Tier One Recommendations - All Funding Sources  
FY2018 - FY2022**

Project	Code*	Function	Cat*	2018 Department Request	Tier One Recommendatio n	2019 Department Request	Tier One Recommendatio n	2020 Department Request	Tier One Recommendatio n	2021 Department Request	Tier One Recommendatio n	2022 Department Request	Tier One Recommendatio n	Five Year Request	Five Year Tier One	Cash	Debt	Other	Page
Permanent Message Boards	M	General	1			87,000	39,000	90,000		47,000				224,000	39,000	39,000			3-113
Police Cruiser Radio Replacement	M	Public Safety	1			80,563	80,563							80,563	80,563	80,563			3-27
Police Use-Of-Force Training Simulator	P	Public Safety	1							45,000	45,000			45,000	45,000	45,000			3-31
Pollard Bathrooms	N	Schools	2	650,000	650,000									650,000	650,000	650,000			3-77
Pollard Blue & Green Gym Upgrades ^	M	Schools	2	45,000	45,000	754,610	760,000	30,000	30,000					829,610	835,000	75,000	760,000		3-79
Pollard Locker Room Retrofit	M	Schools	2							61,232	61,232	316,875	316,875	378,107	378,107	378,107			3-89
Pollard Phased Improvements Feasibility Study	NB	Schools	1	65,000										65,000					3-52
CPA Public Playgrounds	P	Community	1					600,000	600,000					600,000	600,000			600,000	3-136
Public Safety Complex/Station #2	M	Public Safety	2	3,750,000	250,000	59,700,000								63,450,000	250,000	250,000			3-25
Public Safety Data Center Servers and Storage Units	P	Public Safety	1			30,000	30,000			60,000	60,000			90,000	90,000	30,000		60,000	3-05
Public Safety Mobile Devices	P	Public Safety	1			35,000	35,000	35,000	35,000					70,000	70,000	70,000			3-07
Public Works Infrastructure Program	M	Public Works	3	1,762,000	1,300,000	2,025,000	1,300,000	1,680,500	1,300,000	2,771,513	1,300,000	1,718,050	1,718,050	9,957,063	6,918,050	6,168,050	750,000		3-101
Renovate/Reconstruct Emery Grover Building at Highland Avenue Location	M	Schools	2					1,605,200		13,089,300				14,694,500					3-69
CPA Rosemary Lake Camp and Trail	M	Community	3			250,000	250,000							250,000	250,000			250,000	3-132
CPA Rosemary Recreation Complex	M	Community	2	15,800,000	15,800,000									15,800,000	15,800,000		15,000,000	800,000	3-126
School Copier Replacement	R	Schools	1	46,790	46,790	80,850	80,850	54,200	52,780	88,490	89,010	99,730	99,730	370,060	369,160	369,160			3-54
School Document Management System	M	Schools	1			106,400		72,400			178,800			178,800	178,800	178,800			3-64
School Furniture	R	Schools	1	45,000	45,000	44,806	44,806	25,000	25,000	45,000	45,000	25,000	25,000	184,806	184,806	184,806			3-62
School Technology Replacement	R	Schools	1	463,500	307,925	292,000	282,500	565,500	347,500	556,325	177,050	459,700		2,337,025	1,114,975	1,114,975			3-58
Specialty Equipment	M	Public Works	1	30,000	30,000	72,000	72,000	80,000	80,000	163,000	163,000	40,000	40,000	385,000	385,000	385,000			3-99
Sustain Hillside School as Swing Space	N	Schools	2							100,000		2,607,400		2,707,400					3-72
Technology Systems and Application Updates	N	General	1									100,000		100,000					3-15
Time Clock System	NB	Public Works	1	72,000										72,000					3-107
Town Common Redesign	m	Community	3			600,300	600,300							600,300	600,300			600,300	3-115
Town Offices Replacement Furniture	N	General	1			25,000	25,000					25,000	25,000	50,000	50,000	50,000			3-01
Traffic Improvements	N	Public Works	2	249,000	249,000	50,000		50,000		50,000		50,000		449,000	249,000	249,000			3-109

Town of Needham  
Capital Improvement Plan  
January 2017

**Five Year Capital Improvement Plan  
Preliminary Tier One Recommendations - All Funding Sources  
FY2018 - FY2022**

Project	Code*	Function	Cat*	2018 Department Request	Tier One Recommendation	2019 Department Request	Tier One Recommendation	2020 Department Request	Tier One Recommendation	2021 Department Request	Tier One Recommendation	2022 Department Request	Tier One Recommendation	Five Year Request	Five Year Tier One	Cash	Debt	Other	Page
CPA Trail Improvement Project - Needham Reservoir	M	Community	3	925,000	925,000									925,000	925,000			925,000	3-129
* Refer to the last page for code and cat (category) descriptions																			
Equipment and Technology			1	1,035,162	742,587	1,243,139	1,079,239	1,784,330	1,259,390	2,263,668	1,932,713	882,460	265,760	7,208,759	5,279,689	4,619,689		660,000	
Buildings & Facilities			2	29,237,728	18,581,000	74,393,996	916,000	2,817,200	30,000	16,968,532	61,232	2,974,275	316,875	126,391,731	19,905,107	1,674,107	17,080,000	1,151,000	
Infrastructure & Land			3	6,372,000	4,910,000	3,563,300	2,357,300	4,430,500	3,800,000	4,296,513	1,300,000	1,852,284	1,718,050	20,514,597	14,085,350	6,168,050	750,000	7,167,300	
Fleet			4	686,409	646,305	1,957,131	1,634,339	1,190,076	968,000	341,381	500,000	722,665	722,665	4,897,662	4,471,309	4,471,309			
<b>Totals</b>				<b>37,331,299</b>	<b>24,879,892</b>	<b>81,157,566</b>	<b>5,986,878</b>	<b>10,222,106</b>	<b>6,057,390</b>	<b>23,870,094</b>	<b>3,793,945</b>	<b>6,431,684</b>	<b>3,023,350</b>	<b>159,012,749</b>	<b>43,741,455</b>	<b>16,933,155</b>	<b>17,830,000</b>	<b>8,978,300</b>	
General Fund Cash Funding - All Groups					2,539,892		3,919,578		2,957,390		3,733,945		3,023,350		16,174,155				
General Fund Debt Funding - All Groups					16,820,000		1,010,000								17,830,000				
Other Financial Source - All Groups					5,520,000		1,057,300		3,100,000		60,000				9,737,300				
<b>Total General Fund/CPA Tier One Recommended</b>					<b>24,879,892</b>		<b>5,986,878</b>		<b>6,057,390</b>		<b>3,793,945</b>		<b>3,023,350</b>		<b>43,741,455</b>				

Town of Needham  
Capital Improvement Plan  
January 2017

**Five Year Capital Improvement Plan  
Preliminary Tier One Recommendations - All Funding Sources  
FY2018 - FY2022**

Project	Code*	Function	Cat*	2018 Department Request	Tier One Recommendation	2019 Department Request	Tier One Recommendation	2020 Department Request	Tier One Recommendation	2021 Department Request	Tier One Recommendation	2022 Department Request	Tier One Recommendation	Five Year Request	Five Year Tier One	Cash	Debt	Other	Page
<b>Recycling and Transfer Station Enterprise</b>																			
Horizontal Grinder	N	RTS	1			819,000								819,000					3-149
Property Improvements	M	RTS	2	290,000	290,000	113,100						120,000		523,100	290,000	290,000			3-144
Stormwater Control at RTS	M	RTS	2			138,600	138,600							138,600	138,600	138,600			3-151
Transfer Station Floor Replacement	N	RTS	2	166,000	166,000									166,000	166,000	166,000			3-147
* Refer to the last page for code and cat (category) descriptions																			
Equipment and Technology			1			819,000								819,000					
Buildings & Facilities			2	456,000	456,000	251,700	138,600					120,000		827,700	594,600	594,600			
Infrastructure & Land			3																
Fleet			4	254,342	254,342			34,783	34,783			455,611	460,000	744,736	749,125	289,125	460,000		
<b>Total - Recycling and Transfer Station Enterprise</b>				<b>710,342</b>	<b>710,342</b>	<b>1,070,700</b>	<b>138,600</b>	<b>34,783</b>	<b>34,783</b>			<b>575,611</b>	<b>460,000</b>	<b>2,391,436</b>	<b>1,343,725</b>	<b>883,725</b>	<b>460,000</b>		
Cash Funding				710,342		138,600		34,783				460,000		1,343,725					
Debt Funding																			
Other Financial Source																			
<b>Total - Recycling and Transfer Station Enterprise</b>				<b>710,342</b>		<b>138,600</b>		<b>34,783</b>				<b>460,000</b>		<b>1,343,725</b>					



Town of Needham  
Capital Improvement Plan  
January 2017

**Five Year Capital Improvement Plan  
Preliminary Tier One Recommendations - All Funding Sources  
FY2018 - FY2022**

Project	Code*	Function	Cat*	2018 Department Request	Tier One Recommendation	2019 Department Request	Tier One Recommendation	2020 Department Request	Tier One Recommendation	2021 Department Request	Tier One Recommendation	2022 Department Request	Tier One Recommendation	Five Year Request	Five Year Tier One	Cash	Debt	Other	Page
<b>Sewer Enterprise Fund</b>																			
Sewer Main Extension Zone I and II	P	Sewer	3			510,000	510,000							510,000	510,000	510,000			3-157
Sewer Main Replacements	M	Sewer	3			100,000	100,000	500,000	500,000					600,000	600,000	100,000	500,000		3-159
Sewer Pump Station Improvements^	M	Sewer	3	590,000	600,000			630,000	645,000	345,000	345,000	3,370,500	3,450,000	4,935,500	5,040,000	345,000	4,695,000		3-155
Sewer Service Connections	R	Sewer	3			50,000	50,000	50,000	50,000	50,000	50,000	50,000		200,000	150,000	150,000			3-161
* Refer to the last page for code and cat (category) descriptions																			
Equipment and Technology			1																
Buildings & Facilities			2																
Infrastructure & Land			3	590,000	600,000	660,000	660,000	1,180,000	1,195,000	395,000	395,000	3,420,500	3,450,000	6,245,500	6,300,000	1,105,000	5,195,000		
Fleet			4					609,249	609,249	60,046	60,046	643,923	643,923	1,313,218	1,313,218	1,313,218			
<b>Total - Sewer Enterprise</b>				<b>590,000</b>	<b>600,000</b>	<b>660,000</b>	<b>660,000</b>	<b>1,789,249</b>	<b>1,804,249</b>	<b>455,046</b>	<b>455,046</b>	<b>4,064,423</b>	<b>4,093,923</b>	<b>7,558,718</b>	<b>7,613,218</b>	<b>2,418,218</b>	<b>5,195,000</b>		
Cash Funding							660,000		659,249		455,046		643,923		2,418,218				
Debt Funding					600,000				1,145,000				3,450,000		5,195,000				
Other Financial Source																			
<b>Total - Sewer Enterprise</b>					<b>600,000</b>		<b>660,000</b>		<b>1,804,249</b>		<b>455,046</b>		<b>4,093,923</b>		<b>7,613,218</b>				

Town of Needham  
Capital Improvement Plan  
January 2017

**Five Year Capital Improvement Plan  
Preliminary Tier One Recommendations - All Funding Sources  
FY2018 - FY2022**

Project	Code*	Function	Cat*	2018 Department Request	Tier One Recommendation	2019 Department Request	Tier One Recommendation	2020 Department Request	Tier One Recommendation	2021 Department Request	Tier One Recommendation	2022 Department Request	Tier One Recommendation	Five Year Request	Five Year Tier One	Cash	Debt	Other	Page
<b>Water Enterprise Fund</b>																			
Birds Hill Water Tank	P	Water	3			200,000								200,000					3-172
Water Distribution Study	QB	Water	3					200,000						200,000					3-178
Water Distribution System Improvements^	M	Water	3	1,261,750	1,300,000	36,500	36,500	4,975,000	5,075,000	97,000	97,000	443,500	443,500	6,813,750	6,952,000	577,000	6,375,000		3-165
Water Service Connections	R	Water	3	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000		1,000,000	800,000	800,000			3-168
Water Specialty Equipment	N	Water	1	132,000	132,000									132,000	132,000	132,000			3-170
* Refer to the last page for code and cat (category) descriptions																			
Equipment and Technology			1	132,000	132,000									132,000	132,000	132,000			
Buildings & Facilities			2																
Infrastructure & Land			3	1,461,750	1,500,000	436,500	236,500	5,375,000	5,275,000	297,000	297,000	643,500	443,500	8,213,750	7,752,000	1,377,000	6,375,000		
Fleet			4	64,074	64,074	295,016	295,016	125,055	109,036	120,428	120,428	133,214	133,214	737,787	721,768	721,768			
<b>Total - Water Enterprise</b>				<b>1,657,824</b>	<b>1,696,074</b>	<b>731,516</b>	<b>531,516</b>	<b>5,500,055</b>	<b>5,384,036</b>	<b>417,428</b>	<b>417,428</b>	<b>776,714</b>	<b>576,714</b>	<b>9,083,537</b>	<b>8,605,768</b>	<b>2,230,768</b>	<b>6,375,000</b>		
Cash Funding					396,074		531,516		309,036		417,428		576,714		2,230,768				
Debt Funding					1,300,000				5,075,000						6,375,000				
Other Financial Source																			
<b>Total - Water Enterprise</b>					<b>1,696,074</b>		<b>531,516</b>		<b>5,384,036</b>		<b>417,428</b>		<b>576,714</b>		<b>8,605,768</b>				

Town of Needham  
Capital Improvement Plan  
January 2017

**Five Year Capital Improvement Plan  
Preliminary Tier One Recommendations - All Funding Sources  
FY2018 - FY2022**

Project	Code*	Function	Cat*	2018 Department Request	Tier One Recommendatio n	2019 Department Request	Tier One Recommendatio n	2020 Department Request	Tier One Recommendatio n	2021 Department Request	Tier One Recommendatio n	2022 Department Request	Tier One Recommendatio n	Five Year Request	Five Year Tier One	Cash	Debt	Other	Page
<b>General Fleet Program</b>																			
Core Fleet - Building	R	Public Safety	4									30,018		30,018					3-17
Core Fleet - DPF	R	Facilities	4	31,222	31,222	36,301		34,783		88,461				190,767	31,222	31,222			3-17
Core Fleet - DPW Garage	R	Public Works	4			56,054				36,000				92,054					3-17
Core Fleet - DPW General	R	Public Works	4	35,481	35,481	94,875		38,385				33,776		202,517	35,481	35,481			3-17
Core Fleet - DPW Highway	R	Public Works	4	34,729	34,729							150,369		185,098	34,729	34,729			3-17
Core Fleet - DPW Parks	R	Public Works	4	38,277	38,277	30,464								68,741	38,277	38,277			3-17
Core Fleet - Finance Assessing	R	General	4			35,758								35,758					3-17
Core Fleet - Fire	R	Public Safety	4					41,066		117,848				158,914					3-17
Core Fleet - Human Services	R	Community	4									100,240		100,240					3-17
Core Fleet - School	R	School	4	33,861	33,861									33,861	33,861	33,861			3-17
School Van Fleet	R	School	4	65,750	65,750	68,050		165,407		99,072		75,450		473,729	65,750	65,750			3-17
Snow and Ice Equipment	R	Public Works	4			87,240		554,197						641,437					3-17
Specialized Equipment - DPF	R	Facilities	4									71,066		71,066					3-17
Specialized Equipment - DPW Garage	R	Public Works	4									71,066		71,066					3-17
Specialized Equipment - DPW General	R	Public Works	4																3-17
Specialized Equipment - DPW Highway	R	Public Works	4	95,577	83,561	654,386		312,233				70,683		1,132,879	83,561	83,561			3-17
Specialized Equipment - DPW Parks	R	Public Works	4	104,098	98,747	227,664		44,005				119,997		495,764	98,747	98,747			3-17
Specialized Equipment - Fire	R	Public Safety	4	247,414	224,677	666,339	666,339							913,753	891,016	891,016			3-17
Fleet Program Funding***							968,000		968,000		500,000		722,665		3,158,665	3,158,665			3-17
<b>Total - General Fund Fleet</b>				<b>686,409</b>	<b>646,305</b>	<b>1,957,131</b>	<b>1,634,339</b>	<b>1,190,076</b>	<b>968,000</b>	<b>341,381</b>	<b>500,000</b>	<b>722,665</b>	<b>722,665</b>	<b>4,897,662</b>	<b>4,471,309</b>	<b>4,471,309</b>			
Cash Funding				686,409	646,305	1,957,131	1,634,339	1,190,076	968,000	341,381	500,000	722,665	722,665	4,174,997	3,748,644				
Debt Funding																			
Other Financial Source																			
<b>Total - General Fund Fleet</b>				<b>686,409</b>	<b>646,305</b>	<b>1,957,131</b>	<b>1,634,339</b>	<b>1,190,076</b>	<b>968,000</b>	<b>341,381</b>	<b>500,000</b>	<b>722,665</b>	<b>722,665</b>	<b>4,174,997</b>	<b>3,748,644</b>				
Deferred					40,104		322,792		222,076		-158,619				1,149,018				
<b>Total - General Fund Fleet</b>				<b>686,409</b>	<b>686,409</b>	<b>1,957,131</b>	<b>1,957,131</b>	<b>1,190,076</b>	<b>1,190,076</b>	<b>341,381</b>	<b>341,381</b>	<b>722,665</b>	<b>722,665</b>	<b>4,897,662</b>	<b>4,897,662</b>				

\* Refer to the last page for code and cat (category) descriptions

Town of Needham  
Capital Improvement Plan  
January 2017

**Five Year Capital Improvement Plan  
Preliminary Tier One Recommendations - All Funding Sources  
FY2018 - FY2022**

Project	Code*	Function	Cat*	2018 Department Request	Tier One Recommendatio n	2019 Department Request	Tier One Recommendatio n	2020 Department Request	Tier One Recommendatio n	2021 Department Request	Tier One Recommendatio n	2022 Department Request	Tier One Recommendatio n	Five Year Request	Five Year Tier One	Cash	Debt	Other	Page
<b>Enterprise Fleet Program</b>																			
Core Fleet	R	RTS	4					34,783	34,783					34,783	34,783	34,783			3-17
Specialized Equipment^	R	RTS	4	254,342	254,342							455,611	460,000	709,953	714,342	254,342	460,000		3-17
Core Fleet	R	Sewer	4																3-17
Specialized Equipment	R	Sewer	4					609,249	609,249	60,046	60,046	643,923	643,923	1,313,218	1,313,218	1,313,218			3-17
Core Fleet	R	Water	4	64,074	64,074					120,428	120,428	62,148	62,148	246,650	246,650	246,650			3-17
Specialized Equipment	R	Water	4			295,016	295,016	125,055	109,036			71,066	71,066	491,137	475,118	475,118			3-17
<b>Total - Enterprise Fleet***</b>				318,416	318,416	295,016	295,016	769,087	753,068	180,474	180,474	1,232,748	1,237,137	2,795,741	2,784,111	2,324,111	460,000		

Town of Needham  
Capital Improvement Plan  
January 2017

**Five Year Capital Improvement Plan  
Preliminary Tier One Recommendations - All Funding Sources  
FY2018 - FY2022**

Project	Code*	Function	Cat*	2018 Department Request	Tier One Recommendation	2019 Department Request	Tier One Recommendation	2020 Department Request	Tier One Recommendation	2021 Department Request	Tier One Recommendation	2022 Department Request	Tier One Recommendation	Five Year Request	Five Year Tier One	Cash	Debt	Other	Page
Equipment & Technology - All			1	1,167,162	874,587	2,062,139	1,079,239	1,784,330	1,259,390	2,263,668	1,932,713	882,460	265,760	8,159,759	5,411,689	4,751,689		660,000	
Fleet - All			4	1,004,825	964,721	2,252,147	1,929,355	1,959,163	1,721,068	521,855	680,474	1,955,413	1,959,802	7,693,403	7,255,420	6,795,420	460,000		
Buildings & Facilities - All			2	29,693,728	19,037,000	74,645,696	1,054,600	2,817,200	30,000	16,968,532	61,232	3,094,275	316,875	127,219,431	20,499,707	2,268,707	17,080,000	1,151,000	
Infrastructure & Land - All			3	8,423,750	7,010,000	4,659,800	3,253,800	10,985,500	10,270,000	4,988,513	1,992,000	5,916,284	5,611,550	34,973,847	28,137,350	8,650,050	12,320,000	7,167,300	
Other - All																			
<b>TOTAL</b>				<b>40,289,465</b>	<b>27,886,308</b>	<b>83,619,782</b>	<b>7,316,994</b>	<b>17,546,193</b>	<b>13,280,458</b>	<b>24,742,568</b>	<b>4,666,419</b>	<b>11,848,432</b>	<b>8,153,987</b>	<b>178,046,440</b>	<b>61,304,166</b>	<b>22,465,866</b>	<b>29,860,000</b>	<b>8,978,300</b>	

Town of Needham  
Capital Improvement Plan  
January 2017

**Five Year Capital Improvement Plan  
Preliminary Tier One Recommendations - All Funding Sources  
FY2018 - FY2022**

Project	Code*	Function	Cat*	2018 Department Request	Tier One Recommendation	2019 Department Request	Tier One Recommendation	2020 Department Request	Tier One Recommendation	2021 Department Request	Tier One Recommendation	2022 Department Request	Tier One Recommendation	Five Year Request	Five Year Tier One	Cash	Debt	Other	Page
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\*\* Exclusive of any extraordinary capital recommendations

\*\*\* The actual equipment to be replaced will be determined in the scheduled year for replacement. The CIP assumes the estimated amount will be the minimum to be invested in that fiscal year.

Code

B = Funding may be considered under the operating budget/special warrant article

C = Recommendation is combined with other requests

D = Recommendation is deferred or on hold pending other actions

E = Emergency approval

F = Funded appropriation outside the capital plan

G = Request may not qualify as capital submission

I = Project submission is incomplete or waiting additional information

M = Submission has been modified from previous submission

N = New submission with this CIP

P = Project request has appeared in previous CIP's

Q = Request does not qualify as a capital submission

R = Request is a regularly occurring capital expense

S = No recommendation; under study

U = Urgent request based on identified conditions

Cat (Category)

1 = Equipment or Technology

2 = Building or Facility

3 = Infrastructure

4 = Fleet

Pink highlighted amounts indicate that all or portion of the funding may be funded by debt if recommended.

Town of Needham  
 Capital Improvement Plan  
 January 2017

**General Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Current Year Requests</b>						<b>25,414,467</b>	<b>19,077,467</b>
<b>Cash</b>							
Taxation & Reserves	3,421,633	6,066,941	2,667,260	2,432,606	2,729,117		3,157,467
Other Available Funds	2,278,000	75,000		320,305	302,000		2,100,000
<b>Total - Cash</b>	<b>5,699,633</b>	<b>6,141,941</b>	<b>2,667,260</b>	<b>2,752,911</b>	<b>3,031,117</b>		<b>5,257,467</b>
<b>Debt</b>							
Within the Annual Levy Limit	3,505,000	3,958,000	1,700,000	5,100,000	500,000		13,820,000
Excluded from the Levy Limit				7,000,000	58,305,000		
<b>Total - Debt</b>	<b>3,505,000</b>	<b>3,958,000</b>	<b>1,700,000</b>	<b>12,100,000</b>	<b>58,805,000</b>		<b>13,820,000</b>
<b>Total</b>	<b>9,204,633</b>	<b>10,099,941</b>	<b>4,367,260</b>	<b>14,852,911</b>	<b>61,836,117</b>	<b>25,414,467</b>	<b>19,077,467</b>

**General Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
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**Taxation & Reserves**

100kW Portable Generator		61,250					
Athletic Facility Improvements	192,500						
DeFazio Field Sodding	90,000						
Defibrillators		27,500					
Desktop Virtualization	130,000						
Drain System Improvements – Water Quality			80,000				
Drain System Repairs			76,000				
Election Equipment		85,000					
Emery Grover Renovation/Relocation Feasibility	30,000						
Energy Efficiency Upgrade Improvements	34,815	113,078		96,323	38,154	57,000	57,000
Facilities Maintenance Program	450,000	465,750	482,000				
Fire Alarm Cables			60,000				
Fire Bunker Gear						167,872	167,872
Fire Station 2 Feasibility Study				37,695			
Firefighting Protective Gear	40,000						
Fleet - Building		45,042	61,660				



**General Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
Fleet - Council on Aging					35,354		
Fleet - Fire	785,000	49,200	186,607		137,874		
Fleet - Public Facilities	50,318	33,600	27,346	28,049	35,073		
Fleet - Public Works	293,000	387,000	100,910	750,370	159,759		
Fleet - Public Works Snow and Ice	159,000	210,300		326,879			
Fleet - Public Works Specialty	227,000				223,109		
Fleet - Replace Unit 12 (Highway)						38,277	38,277
Fleet - Replace Unit 15 (Parks)						35,481	35,481
Fleet - Replace Unit 336 (Parks)						98,747	98,747
Fleet - Replace Unit 48 (Highway)						83,561	83,561
Fleet - Replace Unit 52 (Highway)						34,729	34,729
Fleet - Replace Unit 704 (PFD)						31,222	31,222
Fleet - Replace Unit PV (School)						33,861	33,861
Fleet - Replace Unit R2 (Fire)						224,677	224,677
Fleet - Replace Unit Van 3 (School)						32,875	32,875
Fleet - Replace Unit Van 6 (School)						32,875	32,875
Fuel Island Relocation and Upgrade					131,000		

**General Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
Fuel System Software/Hardware Upgrade				94,500			
Full-Day Kindergarten Space Study						50,000	
Geographic Information System			100,000				
High School A Gym Upgrade					130,557		
High School Classroom Expansion Alternatives Feasibility Study					65,000		
High School Radio System		37,275					
High School Reconfiguration Work			200,000				
Hillside School Feasibility & Design		650,000					
Mail Processing Machines				30,645			
Memorial Park Buildings and Grounds Improvements					50,000	5,900,000	
Mitchell School Modular Classrooms		2,729,276					
Mobile Column Lifts				73,500			
Network Hardware, Servers & Switches	30,000	30,000	30,000	30,000			
Non-Public Safety Data Center Servers and Storage Units						145,000	145,000
Police and Fire Department Expansion/ New Building Feasibility Study					90,000		
Police Station Underground Storage Tank Removal		28,500					
Pollard Blue & Green Gym Upgrades						45,000	45,000

**General Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
Pollard Locker Replacement					41,157		
Pollard Phased Improvements Feasibility Study						65,000	
Pollard Telephone System Replacement		53,000					
Public Safety Computer Aided Dispatch System			244,615				
Public Works Garage Bay Design	40,000						
Public Works Garage Vehicle Service Lift		110,000					
Public Works Infrastructure Program				453,500	1,200,000	1,262,000	1,262,000
Public Works Large Format Scanner			33,000				
Public Works Seasonal Storage Facility @ RTS (4)						550,000	
Public Works Small Specialty Equipment	42,000	130,800	29,797				
Public Works Specialty Equipment						30,000	30,000
Public Works Two-Way Radios		47,700					
School Department 1:1 Initiative		145,000	127,725				
School Department Fitness Equipment Replacement		14,380	14,810				
School Department Furniture & Musical Equipment	43,450	56,600	49,180	45,405	45,000	45,000	45,000
School Department Graphic Arts Equipment	14,180	8,270	8,350				
School Department Interactive Whiteboard Technology	148,300		24,600				

**General Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
School Department Photocopier Replacement	97,570	59,620	30,320	62,740	39,330	46,790	46,790
School Department Postage and Folding Machines			9,340				
School Department Technology Innovation			25,000				
School Department Technology Replacement	524,500	488,800	502,000	403,000	307,750	463,500	463,500
Time Clock System						72,000	
Traffic Improvements						249,000	249,000
Wireless Master Fire Box System			164,000				

**General Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Other Available Funds</b>							
Pollard Boiler Replacement Design (unexpended articles)	55,000						
Public Works Infrastructure Program (Unexpended Articles)	310,000						
Salt Storage Shed (Chapter 90 SAN)	1,913,000						
Property Acquisition (66-70 Chestnut Street) (FY14 Reserve Fund Transfer)		75,000					
DPW/Public Services Administration Building Location Feasibility Study				40,000			
Emery Grover School Administration Tank Replacement (Unexpended				73,000			
Hillside School Feasibility Study (Unexpended Articles)				45,000			
Fire Station 2 Feasibility Study (Unexpended Articles)				12,305			
High School Expansion Options (Unexpended Articles)				150,000			
Fleet - Replace Unit 404 (Unexpended Article)					52,000		
Central Avenue Elementary School Outside Play Area (Unexpended Article)					250,000		
Needham High School Classroom Expansion & Other Improvements							400,000
Public Safety Complex/Station #2 (4)						3,750,000	250,000
Pollard Bathroom Upgrades						650,000	650,000
Rosemary Pool Complex Renovations							800,000

**General Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Debt</b>							
Property Acquisition (37-39 Lincoln)	630,000						
Property Acquisition (51 Lincoln)	1,100,000						
Property Acquisition (59 Lincoln/89 School)	1,175,000						
Property Acquisition (66-70 Chestnut Street)		1,458,000					
Pollard Boiler Replacement		800,000					
Public Works Garage Bay		1,100,000					
Central Avenue/Elliot Street Bridge (Cooks Bridge)			900,000	2,000,000			
Needham High School Cafeteria Expansion				2,100,000			
Needham High School Classroom Expansion & Other Improvements						9,400,000	9,000,000
Rosemary Pool Complex Renovations							3,000,000
Fuel Island Relocation and Upgrade#						1,320,000	1,320,000
Public Works Infrastructure Program	600,000	600,000	800,000	1,000,000	500,000	500,000	500,000

**General Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
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**Debt Exclusions**

Property Acquisition (Owens Farm & Abutting Properties)				7,000,000			
Property Acquisition (609 Central Avenue)					762,500		
New Elementary School (Central Avenue)					57,542,500		

Notes

- # Portion of the debt will be paid by enterprise funds.
- (3) Special financing/grants may be available through MWPAT or MWRA for this project

**Community Preservation Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Current Year Requests</b>						<b>20,620,000</b>	<b>15,745,000</b>
<b>Cash</b>							
Receipts & Reserves	480,000	433,000	268,219	3,417,000	978,000		3,745,000
Other Available Funds							
<b>Total - Cash</b>	<b>480,000</b>	<b>433,000</b>	<b>268,219</b>	<b>3,417,000</b>	<b>978,000</b>		<b>3,745,000</b>
<b>Debt</b>							
CPA Surcharge Supported							12,000,000
<b>Total - Debt</b>							<b>12,000,000</b>
<b>Total</b>	<b>480,000</b>	<b>433,000</b>	<b>268,219</b>	<b>3,417,000</b>	<b>978,000</b>	<b>20,620,000</b>	<b>15,745,000</b>



**Community Preservation Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Community Preservation Receipts &amp; Reserves</b>							
Greene's Field Playground Improvements	445,000						
Rail Trail Feasibility Study	35,000						
Newman Preschool Playground Surfacing		60,000					
Memorial Park Improvements			35,000				
Ridge Hill Reservation Footbridge Repairs			213,219				
Town Common Historic Redesign			20,000				
Boat Launch Design				30,000			
Mills Field Improvements		40,000		510,000			
Newman School Fields Renovation				1,527,000			
Rail Trail Improvements				100,000			
Trail Improvement Project - Newman Eastman		248,000		800,000			
Memorial Field Improvements					310,000		
Renovations to Rosemary Pool Complex				450,000	550,000		
Athletic Facility and Public Recreation Improvements (Cricket Field)+						285,000	285,000
Central Avenue School Walking Trails+						210,000	210,000
Open Space Purchase						1,000,000	

**Community Preservation Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
Rosemary Lake Sediment Removal+					118,000	2,400,000	2,400,000
Trail Improvement Project - Needham Reservoir+		85,000				925,000	850,000
<b>Community Preservation Debt</b>							
Rosemary Recreation Complex+						15,800,000	12,000,000

Notes

+ Subject to approval by the Community Preservation Committee

**RTS Enterprise Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Current Year Requests</b>						<b>710,342</b>	<b>710,342</b>
<b>Cash</b>							
Receipts & Reserves	175,200	108,100	321,095		215,927		710,342
Other Available Funds		144,000			22,073		
<b>Total - Cash</b>	<b>175,200</b>	<b>252,100</b>	<b>321,095</b>		<b>238,000</b>		<b>710,342</b>
<b>Debt</b>							
Fee Supported	400,000	324,400			269,000		
<b>Total - Debt</b>	<b>400,000</b>	<b>324,400</b>			<b>269,000</b>		
<b>Total</b>	<b>575,200</b>	<b>576,500</b>	<b>321,095</b>		<b>507,000</b>	<b>710,342</b>	<b>710,342</b>

**RTS Enterprise Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Enterprise Fund Reserves</b>							
Specialty Equipment	175,200	108,100	215,316				
Message Board			30,000				
Transfer Station Office Trailer			75,779				
Refurbish Unit 5 - Swap-loader with Attachments					120,000		
RTS Stormwater Plan					50,000		
Replace Unit 67 (Grinder)						43,086	43,086
Replace Unit 80 (International)						211,256	211,256
RTS Property Improvements					45,927	290,000	290,000
Transfer Station Floor Replacement						166,000	166,000
<b>Other Available Funds</b>							
Waste Containers (Unexpended Article Balance)		34,000					
Large Specialty Equipment (Unexpended Article Balance)		110,000					
RTS Property Improvements (Unexpended Article Balance)					22,073		

**RTS Enterprise Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Debt</b>							
RTS Soil Remediation	400,000						
Waste Handler		324,400					
Front End Loader						269,000	

**Notes**  
 ^ Some capital requests that are to be funded through debt did not include debt issuance costs, the proposed funding represents the addition of those expenses  
 (3) Special financing/grants may be available through MWPAT or MWRA for this project

**Sewer Enterprise Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Current Year Requests</b>						<b>590,000</b>	<b>600,000</b>
<b>Cash</b>							
Receipts & Reserves	650,100	647,900	398,000	554,357	63,525		
Other Available Funds	197,000			116,143	10,335		
<b>Total - Cash</b>	<b>847,100</b>	<b>647,900</b>	<b>398,000</b>	<b>670,500</b>	<b>73,860</b>		
<b>Debt</b>							
Fee Supported							600,000
<b>Total - Debt</b>							<b>600,000</b>
<b>Total</b>	<b>847,100</b>	<b>647,900</b>	<b>398,000</b>	<b>670,500</b>	<b>73,860</b>	<b>590,000</b>	<b>600,000</b>

**Sewer Enterprise Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Enterprise Fund Reserves</b>							
Sewer Line Reconstruction	3,000						
Fleet Replacement - Core	33,100	47,900					
Sewer Systems Rehabilitation	550,000	600,000					
Infiltration & Inflow Removal Program							
Sewer Pump Station Improvements (West Street)			90,000				
Sewer SCADA System	30,000		258,000				
Sewer Pump Station Improvements (Reservoir A)				433,857			
Sewer Service Connections			50,000	50,000			
Sewer Specialty Equipment	34,000			70,500			
Sewer Main Extension Zone I and II					63,525		
<b>Other Available Funds</b>							
Sewer Line Reconstruction (Unexpended Article Balance)	197,000						
Sewer Pump Station Improvements (Unexpended Article Balance)				116,143			
Sewer Main Extension Zone I and II (Unexpended Article Balance)					10,335		
<b>Debt</b>							
Sewer Pump Station (Alden Road)^						590,000	600,000

**Notes**

^ Some capital requests that are to be funded through debt did not include debt issuance costs, the proposed funding represents the addition of those expenses

(3) Special financing/grants may be available through MWPAT or MWRA for this project

**Water Enterprise Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Current Year Requests</b>						<b>1,657,824</b>	<b>1,771,074</b>
<b>Cash</b>							
Receipts & Reserves	416,300	1,563,100	729,050	980,179	345,679		471,074
Other Available Funds				181,925			
<b>Total - Cash</b>	<b>416,300</b>	<b>1,563,100</b>	<b>729,050</b>	<b>1,162,104</b>	<b>345,679</b>		<b>471,074</b>
<b>Debt</b>							
Fee Supported		5,565,100		635,000			1,300,000
<b>Total - Debt</b>		<b>5,565,100</b>		<b>635,000</b>			<b>1,300,000</b>
<b>Total</b>	<b>416,300</b>	<b>7,128,200</b>	<b>729,050</b>	<b>1,797,104</b>	<b>345,679</b>	<b>1,657,824</b>	<b>1,771,074</b>



**Water Enterprise Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Enterprise Fund Reserves</b>							
Irrigation Supply Facility Design		80,000					
SCADA System Upgrade		435,000					
Water Small Specialty Equipment		57,300					
Filter Media Replacement		115,000	238,050				
Mobile Record Keeping Devices GIS				35,000			
Water Supply Development			200,000	700,000			
Fire Flow Improvement Study					20,000		
Fleet Replacement - Core	117,000			41,604	43,679		
Water Service Connections	200,000	160,000	200,000	200,000	200,000	200,000	200,000
Water System Rehabilitation Program	99,300	715,800	91,000	3,575	82,000		
Trail Improvement Project - Needham Reservoir							75,000
Fleet - Replace Unit 20						34,729	34,729
Fleet - Replace Unit 24						29,345	29,345
Tractor Excavator Replacement (Unit 115)						132,000	132,000
<b>Other Available Funds</b>							
Water System Rehabilitation Program (Unexpended Article Balances)				181,925			

**Water Enterprise Fund Capital  
 Current and Prior  
 Funding Sources**

Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Debt</b>							
St Mary's Pump Station		5,565,100					
Water System Rehabilitation Program (3)^				635,000		1,261,750	1,300,000

Notes

^ Some capital requests that are to be funded through debt did not include debt issuance costs, the proposed funding represents the addition of those expenses

(3) Special financing/grants may be available through MWPAT or MWRA for this project

Town of Needham  
Capital Improvement Plan  
January 2017

All Capital Funds							
Funding Sources							
Description	Funded FY2013	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Requested FY2018	Proposed FY2018
<b>Current Year Requests</b>						<b>48,992,633</b>	<b>37,903,883</b>
<b>Cash</b>							
Cash	3,901,633	6,499,941	2,935,479	5,849,606	3,707,117		6,902,467
Retained Earnings	1,241,600	2,319,100	1,448,145	1,534,536	625,131		1,181,416
Other Available Funds	2,475,000	219,000		618,373	334,408		2,100,000
<b>Total - Cash</b>	<b>7,618,233</b>	<b>9,038,041</b>	<b>4,383,624</b>	<b>8,002,515</b>	<b>4,666,656</b>		<b>10,183,883</b>
<b>Debt</b>							
Operating Revenues	3,905,000	9,847,500	1,700,000	5,735,000	769,000		15,720,000
CPA Surcharge							12,000,000
Debt Excluded				7,000,000	58,305,000		
<b>Total - Debt</b>	<b>3,905,000</b>	<b>9,847,500</b>	<b>1,700,000</b>	<b>12,735,000</b>	<b>59,074,000</b>		<b>27,720,000</b>
<b>Total</b>	<b>11,523,233</b>	<b>18,885,541</b>	<b>6,083,624</b>	<b>20,737,515</b>	<b>63,740,656</b>	<b>48,992,633</b>	<b>37,903,883</b>

**Debt Service to Revenue  
 Issued, Authorized and Proposed  
 FY2018 - FY2022**

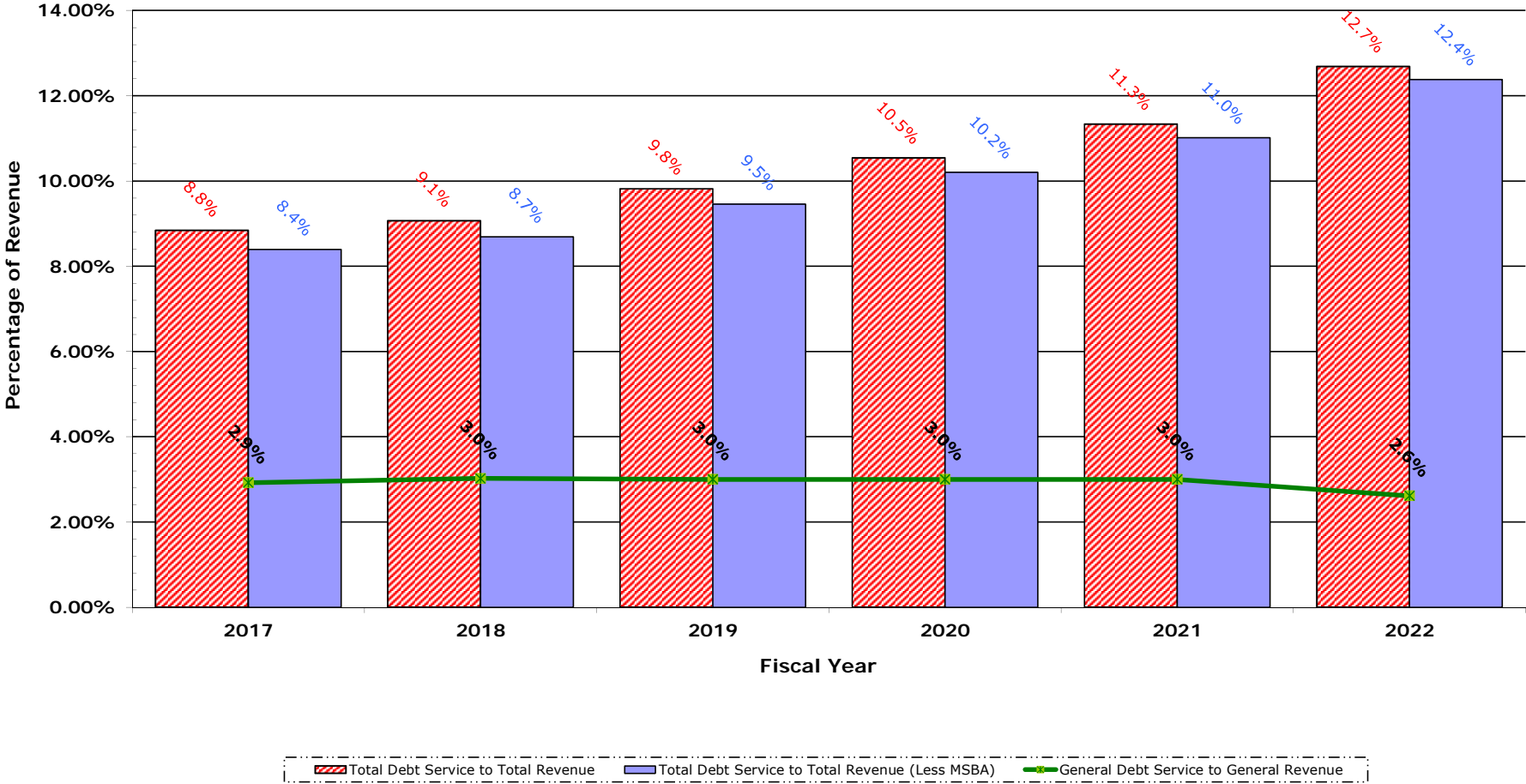
Description	2017	2018	2019	2020	2021	2022
<b>Revenue</b>						
<b>General Fund Within the Levy (5)</b>	<b>\$139,052,518</b>	<b>\$144,266,987</b>	<b>\$149,676,999</b>	<b>\$155,289,886</b>	<b>\$161,113,257</b>	<b>\$167,155,004</b>
General Fund Excluded from Levy (2)	\$5,858,662	\$7,232,225	\$7,981,749	\$10,795,367	\$12,395,662	\$16,834,370
CPA Revenue	\$2,660,750	\$2,417,819	\$2,478,264	\$2,540,221	\$2,603,727	\$2,668,820
RTS Revenue	\$1,181,928	\$1,192,247	\$1,116,845	\$1,108,906	\$1,076,972	\$1,087,545
Sewer Revenue	\$8,191,198	\$7,788,110	\$7,960,988	\$7,617,031	\$7,937,075	\$7,979,111
Water Revenue	\$5,570,529	\$5,406,768	\$5,377,161	\$4,866,489	\$5,234,557	\$5,259,127
<b>Total Revenue</b>	<b>\$162,515,585</b>	<b>\$168,304,157</b>	<b>\$174,592,007</b>	<b>\$182,217,900</b>	<b>\$190,361,250</b>	<b>\$200,983,977</b>
<b>Debt Service</b>						
<b>General Debt (Table I)</b>	<b>\$4,060,070</b>	<b>\$4,358,722</b>	<b>\$4,490,310</b>	<b>\$4,658,696</b>	<b>\$4,833,398</b>	<b>\$4,367,729</b>
CPA Debt (Table II)	\$456,313	\$449,163	\$1,501,494	\$1,570,775	\$1,630,675	\$1,615,791
RTS Debt (Table III)	\$150,000	\$150,000	\$64,175	\$45,709	\$3,144	\$2,978
Sewer Debt (Table IV)	\$1,500,000	\$1,030,000	\$1,135,297	\$723,083	\$974,188	\$946,595
Water Debt (Table V)	\$1,550,000	\$1,346,034	\$1,275,820	\$724,134	\$1,050,779	\$1,033,511
Gross Excluded Debt (Table VI)	\$6,647,255	\$7,927,373	\$8,676,897	\$11,490,515	\$13,090,810	\$17,529,518
<b>Total Debt Service</b>	<b>\$14,363,638</b>	<b>\$15,261,292</b>	<b>\$17,143,993</b>	<b>\$19,212,912</b>	<b>\$21,582,992</b>	<b>\$25,496,121</b>
Total Debt Service to Total Revenue	8.8%	9.1%	9.8%	10.5%	11.3%	12.7%
Total Debt Service to Total Revenue (less MSBA) *	8.4%	8.7%	9.5%	10.2%	11.0%	12.4%
<b>General Debt Service to General Revenue</b>	<b>2.9%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>2.6%</b>

(5) FY2018 - FY2022 revenue is based on the FY2017 General Fund recurring revenue estimate increased by 3.75% annually

(2) Excludes Massachusetts School Building Assistance (MSBA) Revenue.

\*\*\* Uses net general fund debt excluded figure (or actual debt to be paid by Town after MSBA payment) see table VI.

### Projected Debt Service as a Percentage of Revenue



**Table I**  
**General Fund Capital Projects**  
**Proposed Funding by Debt**  
**FY2018**

Project	Amount	Bond Rate%	Budget	Estimated Debt Service Schedule				
			2017	2018	2019	2020	2021	2022
<b><u>General Fund Within the Levy</u></b>								
Fuel Island Relocation Project (2018)	\$1,320,000	6.25%			\$347,500	\$330,938	\$314,375	\$297,813
Public Works Infrastructure Program (2018)	\$500,000	6.25%			\$131,250	\$125,000	\$118,750	\$112,500
Public Works Infrastructure Program (2019)	\$250,000	6.50%				\$66,250	\$63,000	\$59,750
Rosemary Pool (2018)	\$3,000,000	6.50%			\$555,000	\$615,750	\$336,500	\$323,500
High School Combined Project (2018)	\$9,000,000	6.50%			\$240,000	\$586,500	\$1,225,625	\$1,182,400
Memorial Park Building (2018)	\$2,000,000	6.50%			\$330,000	\$317,000	\$304,000	\$291,000
Pollard Blue and Green Gyms (2019)	\$760,000	6.50%				\$209,400	\$189,000	\$179,250
Fuel Island Allocation to Enterprise 20%					(\$69,500)	(\$66,188)	(\$62,875)	(\$59,563)
<b>Projected New General Fund Debt Service</b>	<b>\$16,830,000</b>				<b>\$1,534,250</b>	<b>\$2,184,650</b>	<b>\$2,488,375</b>	<b>\$2,386,650</b>
<b>General Fund Debt</b>								
Authorized & Issued (refer to schedule)			\$3,173,327	\$2,452,782	\$2,028,886	\$1,602,968	\$1,541,378	\$1,503,439
Authorized Not Yet Issued & Short Term Costs Proposed			\$886,743	\$1,905,940	\$927,174	\$871,078	\$803,645	\$477,640
					\$1,534,250	\$2,184,650	\$2,488,375	\$2,386,650
<b>Total General Fund Debt Service Within the Levy</b>			<b>\$4,060,070</b>	<b>\$4,358,722</b>	<b>\$4,490,310</b>	<b>\$4,658,696</b>	<b>\$4,833,398</b>	<b>\$4,367,729</b>
<b>General Fund Within the Levy Revenue (1)</b>			<b>\$139,052,518</b>	<b>\$144,266,987</b>	<b>\$149,676,999</b>	<b>\$155,289,886</b>	<b>\$161,113,257</b>	<b>\$167,155,004</b>
<b>Debt Service as a Percentage of General Fund Revenue</b>			<b>2.9%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>2.6%</b>

(1) Before other offsets and credits

% Assumed interest rate on bonds, the interest rate on notes, if any, is at a lower rate.

**Table II**  
**CPA Capital Projects**  
**Proposed Funding by Debt**  
**FY2018**

Project	Amount	Bond Rate <sup>5</sup>	Budget	Estimated Debt Service Schedule				
			2017	2018	2019	2020	2021	2022
<b>CPA Fund Debt</b>								
Rosemary Pool (2018)	\$12,000,000	6.50%			\$1,060,000	\$1,140,250	\$1,214,000	\$1,210,750
<b>Projected New CPA Fund Debt Service</b>	<b>\$12,000,000</b>				<b>\$1,060,000</b>	<b>\$1,140,250</b>	<b>\$1,214,000</b>	<b>\$1,210,750</b>
<b>CPA Fund Debt</b>								
Authorized & Issued			\$456,313	\$449,163	\$441,494	\$430,525	\$416,675	\$405,041
Authorized Not Yet Issued & Short Term Costs Proposed					\$1,060,000	\$1,140,250	\$1,214,000	\$1,210,750
<b>Total CPA Fund Debt Service</b>			<b>\$456,313</b>	<b>\$449,163</b>	<b>\$1,501,494</b>	<b>\$1,570,775</b>	<b>\$1,630,675</b>	<b>\$1,615,791</b>

<sup>5</sup> % Assumed interest rate on bonds, the interest rate on notes, if any, is at a lower rate.

**Table III**  
**Recycling & Solid Waste Disposal Capital Projects**  
**Proposed Funding by Debt**  
**FY2018**

Project	Amount	Bond Rate%	Budget	Estimated Debt Service Schedule				
			2017	2018	2019	2020	2021	2022
<b><u>Recycling &amp; Solid Waste Disposal Enterprise (RTS)</u></b>								
<b>No New Authorizations Proposed for FY2018</b>								
RTS Fleet Speciality Equipment (2022)	\$460,000	7.00%						
<b>Fuel Island Allocation 1%</b>					\$3,475	\$3,309	\$3,144	\$2,978
<b>Projected New RTS Debt Service</b>	<b>\$460,000</b>				<b>\$3,475</b>	<b>\$3,309</b>	<b>\$3,144</b>	<b>\$2,978</b>
<b>RTS Enterprise Fund Debt</b>								
Authorized & Issued (refer to schedule)			\$97,775	\$25,500				
Authorized Not Yet Issued & Short Term Costs Proposed			\$52,225	\$124,500	\$60,700	\$42,400		
					\$3,475	\$3,309	\$3,144	\$2,978
<b>Total RTS Debt Service</b>			<b>\$150,000</b>	<b>\$150,000</b>	<b>\$64,175</b>	<b>\$45,709</b>	<b>\$3,144</b>	<b>\$2,978</b>

% Assumed interest rate on bonds, the interest rate on notes, if any, is at a lower rate.



**Table IV**  
**Sewer Fund Capital Projects**  
**Proposed Funding by Debt**  
**FY2018**

Project	Amount	Bond Rate%	Budget	Estimated Debt Service Schedule				
			2017	2018	2019	2020	2021	2022
<b><u>Sewer Enterprise</u></b>								
Sewer Pump Station Improvements Alden Road (2018)	\$600,000	6.25%			\$157,500	\$150,000	\$142,500	\$135,000
Sewer Pump Station Improvements Lake Drive (2020)	\$645,000	6.50%					\$171,925	\$163,475
Sewer Pump Station Improvements Cooks Bridge (2022)	\$3,450,000	7.00%						
Sewer Main Replacements (2020)	\$500,000	6.50%					\$132,500	\$126,000
<b>Fuel Island Allocation 7%</b>					\$24,325	\$23,166	\$22,006	\$20,847
<b>Projected New Sewer Debt Service</b>	<b>\$5,195,000</b>				<b>\$181,825</b>	<b>\$173,166</b>	<b>\$468,931</b>	<b>\$445,322</b>
<b>Sewer Enterprise Fund Debt</b>								
Authorized & Issued (refer to schedule)			\$1,082,931	\$1,025,700	\$953,472	\$549,917	\$505,256	\$501,273
Authorized Not Yet Issued & Short Term Costs Proposed			\$417,069	\$4,300	\$181,825	\$173,166	\$468,931	\$445,322
<b>Total Sewer Debt Service</b>			<b>\$1,500,000</b>	<b>\$1,030,000</b>	<b>\$1,135,297</b>	<b>\$723,083</b>	<b>\$974,188</b>	<b>\$946,595</b>

% Assumed interest rate on bonds, the interest rate on notes, if any, is at a lower rate.

**Table V**  
**Water Fund Capital Projects**  
**Proposed Funding by Debt**  
**FY2018**

Project	Amount	Bond Rate%	Budget	Estimated Debt Service Schedule				
			2017	2018	2019	2020	2021	2022
<b>Water Enterprise</b>								
Water Distribution Improvements (2018)	\$1,300,000	6.25%			\$81,250	\$81,250	\$81,250	\$81,250
Water Distribution Improvements (2020)	\$5,075,000	7.00%					\$355,250	\$355,250
<b>Fuel Island Allocation 12%</b>					\$41,700	\$39,713	\$37,725	\$35,738
<b>Projected New Water Debt Service</b>	<b>\$6,375,000</b>				<b>\$122,950</b>	<b>\$120,963</b>	<b>\$474,225</b>	<b>\$472,238</b>
<b>Water Enterprise Fund Debt</b>								
Authorized & Issued (refer to schedule)			\$1,101,933	\$1,081,034	\$1,072,150	\$526,531	\$533,994	\$520,994
Authorized Not Yet Issued & Short Term Costs Proposed			\$448,067	\$265,000	\$80,720	\$76,640	\$42,560	\$40,280
					\$122,950	\$120,963	\$474,225	\$472,238
<b>Total Water Debt Service</b>			<b>\$1,550,000</b>	<b>\$1,346,034</b>	<b>\$1,275,820</b>	<b>\$724,134</b>	<b>\$1,050,779</b>	<b>\$1,033,511</b>

% Assumed interest rate on bonds, the interest rate on notes, if any, is at a lower rate

**Table VI**  
**Capital Projects**  
**Proposed Funding by Debt Exclusion**  
**FY2018**

Project	Amount	Bond Rate%	Budget	Estimated Debt Service Schedule					
			2017	2018	2019	2020	2021	2022	
<b>General Fund Debt Excluded</b>									
DPW Seasonal Storage (2019)	\$6,860,000	6.50%					\$790,900	\$768,475	\$746,050
Public Safety Facilities (2019)	\$63,450,000	7.00%			\$131,250	\$2,220,750	\$2,220,750	\$2,220,750	\$6,981,500
<b>Projected New General Fund Debt Service Excluded</b>	<b>\$70,310,000</b>				<b>\$131,250</b>	<b>\$3,011,650</b>	<b>\$2,989,225</b>	<b>\$2,989,225</b>	<b>\$7,727,550</b>
<b>General Fund Debt Excluded</b>									
Authorized & Issued (refer to schedule)			\$6,647,255	\$6,404,661	\$6,191,664	\$5,906,715	\$4,829,135	\$4,660,618	\$4,660,618
Authorized Not Yet Issued & Short Term Costs Proposed				\$1,522,712	\$2,353,983	\$2,572,150	\$5,272,450	\$5,141,350	\$5,141,350
					\$131,250	\$3,011,650	\$2,989,225	\$2,989,225	\$7,727,550
<b>Total General Fund Excluded Debt Service</b>			<b>\$6,647,255</b>	<b>\$7,927,373</b>	<b>\$8,676,897</b>	<b>\$11,490,515</b>	<b>\$13,090,810</b>	<b>\$13,090,810</b>	<b>\$17,529,518</b>
<b>Projected SBA Payments/Other Adjustments</b>			<b>\$788,593</b>	<b>\$695,148</b>	<b>\$695,148</b>	<b>\$695,148</b>	<b>\$695,148</b>	<b>\$695,148</b>	<b>\$695,148</b>
<b>Net General Fund Excluded Debt Service (1)</b>			<b>\$5,858,662</b>	<b>\$7,232,225</b>	<b>\$7,981,749</b>	<b>\$10,795,367</b>	<b>\$12,395,662</b>	<b>\$12,395,662</b>	<b>\$16,834,370</b>

(1) Before other offsets and credits

**Previously Approved Debt Funded Capital  
 Open Authorizations  
 Balances Not Yet Issued**

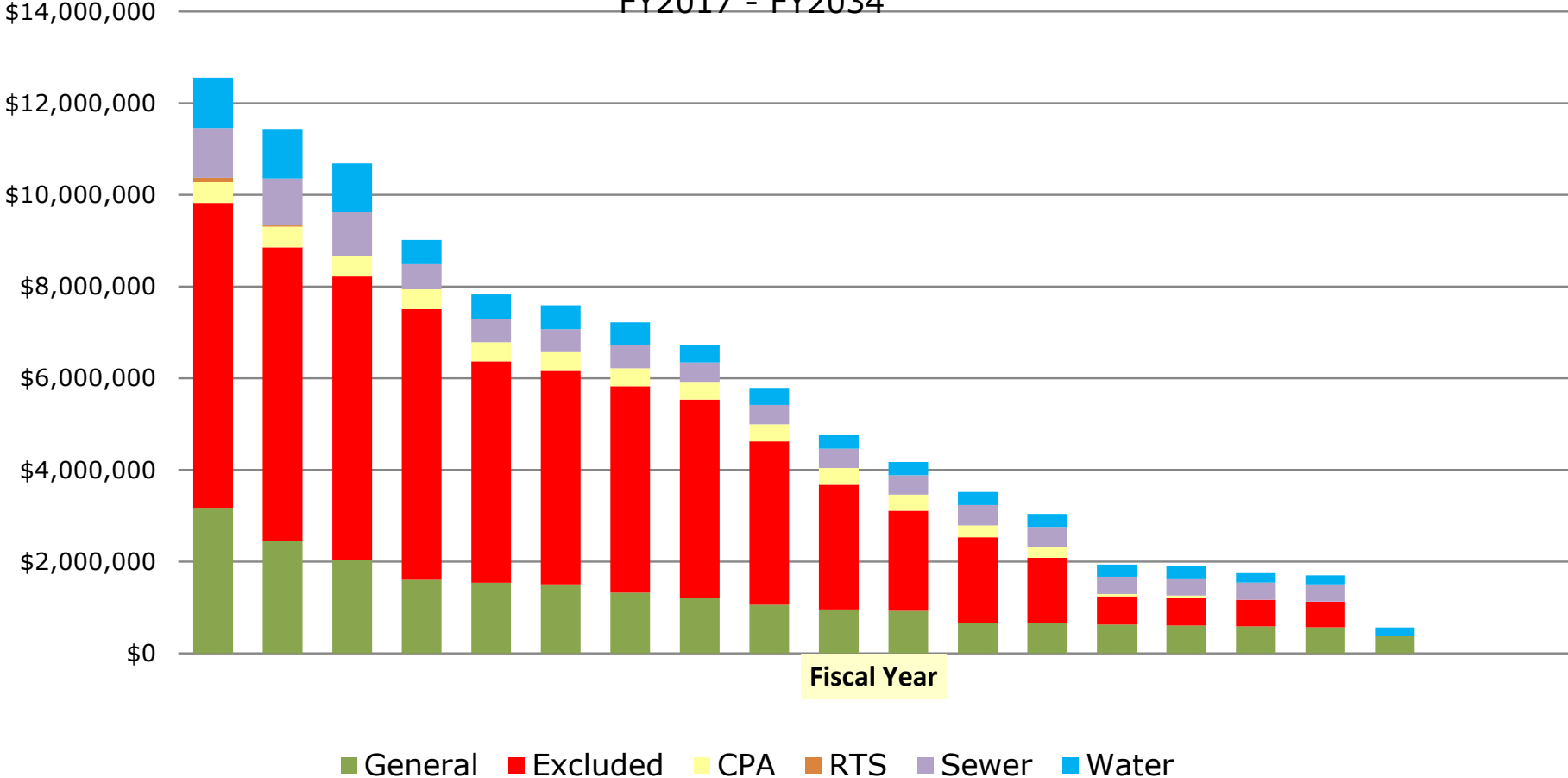
Approved	Project	Town Meeting	Art	Authorized	Balance
2008	Sewer System Rehabilitation I/I Work	16-May-07	45	\$1,806,800	\$59,159
2012	Sewer Pump Station Reservoir B	07-Nov-11	15	\$6,300,000	\$170,000
2013	RTS Remediation	13-Nov-12	16	\$400,000	\$116,000
2014	St Mary's Pumping Station	13-May-13	47	\$5,565,100	\$625,000
2015	Central Avenue/Elliot Street Bridge	12-May-14	39	\$900,000	\$610,000
2016	Central Avenue/Elliot Street Bridge	11-May-15	43	\$2,000,000	\$1,660,000
2016	High School Cafeteria Construction	02-Nov-15	11	\$2,100,000	\$2,100,000
2016	Owens Farm Land Purchase	02-Nov-15	13	\$7,000,000	\$7,000,000
2016	Public Works Infrastructure Program	11-May-15	42	\$1,000,000	\$1,000,000
2016	Water System Rehabilitation Program	11-May-15	47	\$635,000	\$585,000
2017	Central Avenue Elementary School	05-Oct-16	2	\$57,542,500	\$57,542,500
2017	Property Acquisition - 609 Central Avenue	09-May-16	7	\$762,500	\$762,500
2017	Public Works Infrastructure Program	11-May-16	44	\$500,000	\$500,000
2017	RTS Front-End Loader	02-May-16	46	\$269,000	\$269,000
<b>Total</b>				<b>\$86,780,900</b>	<b>\$72,999,159</b>

The above projects are in various stages of completion and therefore the amount and timing of each Note and Bond issue has not yet been determined. The debt retirement will be structured to fit within the proposed budget allocation shown in the debt tables.

**Town of Needham  
 Current Long Term Debt Service Obligations  
 Inclusive of the June 16, 2016 Bond Issue**

Fiscal Year	General	Excluded	CPA	RTS	Sewer	Water	Total
2017	\$3,173,327.31	\$6,647,255.02	\$456,312.50	\$97,775.00	\$1,082,930.90	\$1,101,933.11	\$12,559,533.84
2018	\$2,452,781.92	\$6,404,661.25	\$449,162.50	\$25,500.00	\$1,025,700.33	\$1,081,034.09	\$11,438,840.09
2019	\$2,028,886.17	\$6,191,663.75	\$441,493.75		\$953,472.34	\$1,072,149.64	\$10,687,665.65
2020	\$1,602,968.22	\$5,906,715.00	\$430,525.00		\$549,916.96	\$526,531.18	\$9,016,656.36
2021	\$1,541,377.52	\$4,829,135.00	\$416,675.00		\$505,256.32	\$533,993.60	\$7,826,437.44
2022	\$1,503,438.77	\$4,660,617.50	\$405,040.63		\$501,272.93	\$520,993.56	\$7,591,363.39
2023	\$1,323,593.77	\$4,501,237.50	\$395,256.26		\$497,240.95	\$503,022.42	\$7,220,350.90
2024	\$1,205,680.02	\$4,331,445.00	\$384,906.26		\$424,559.50	\$377,413.08	\$6,724,003.86
2025	\$1,058,977.52	\$3,563,185.00	\$374,762.51		\$423,230.66	\$368,595.41	\$5,788,751.10
2026	\$956,002.52	\$2,720,760.00	\$364,681.26		\$421,802.39	\$296,002.26	\$4,759,248.43
2027	\$924,584.39	\$2,184,400.00	\$354,306.26		\$420,276.63	\$289,632.26	\$4,173,199.54
2028	\$667,601.26	\$1,864,317.50	\$259,996.88		\$443,252.24	\$283,785.00	\$3,518,952.88
2029	\$649,915.64	\$1,434,918.75	\$241,637.50		\$430,929.00	\$283,288.06	\$3,040,688.95
2030	\$626,611.27	\$615,257.50	\$51,812.50		\$374,907.65	\$267,663.04	\$1,936,251.96
2031	\$607,438.76	\$600,698.75	\$50,625.00		\$374,987.84	\$261,387.51	\$1,895,137.86
2032	\$587,577.50	\$579,397.50			\$375,070.14	\$206,775.00	\$1,748,820.14
2033	\$567,080.00	\$561,845.00			\$375,154.05	\$195,650.00	\$1,699,729.05
2034	\$377,800.00					\$184,600.00	\$562,400.00
2035							

## Current Total Annual Long Term Debt Service By Category FY2017 - FY2034



Town of Needham  
Capital Improvement Plan  
January 2017

TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE				DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Amount Issued	Average Rate*	2017	2018	2019	2020	2021	2022	2023 - 2027	After 2027	
Title V Loans	01-May-97	\$85,894	(see note)	\$5,662.92	\$5,391.28	\$5,119.64	\$4,853.91					
MWPAT 98-92	06-May-98	\$364,979	(see note)	\$32,701.87	\$31,149.37	\$29,874.01	\$28,566.79					
Public Services Administration Building (Series I)	27-Oct-08	\$4,000,000	3.16%	\$319,125.00	\$312,525.00	\$306,225.00	\$299,325.00	\$292,125.00	\$284,625.00	\$1,223,212.50		
Public Services Administration Building (Series II)	27-Oct-08	\$1,000,000	3.07%	\$84,062.50	\$82,356.25	\$80,487.50	\$78,537.50	\$86,437.50	\$84,093.75	\$236,812.50		
Town Hall Project (Series I)	18-May-09	\$2,500,000	2.24%	\$307,500.00								
Town Hall (Series III)	18-May-09	\$385,000	2.63%	\$31,781.26	\$31,281.26	\$30,781.26	\$30,250.01	\$29,656.26	\$29,031.26	\$134,484.42		
Parking Lot Improvements	05-May-08	\$100,000	2.00%	\$20,200.00								
Kendrick Street Bridge Repair	12-May-10	\$750,000	2.21%	\$84,187.50	\$82,687.50	\$81,187.50	\$79,593.75	\$77,812.50	\$75,937.50			
Public Services Administration Bldg.	27-Oct-08	\$100,000	3.69%	\$12,450.00	\$12,150.00	\$11,800.00	\$11,400.00	\$11,000.00	\$10,600.00	\$10,200.00		
Property Acquisition 59 Lincoln Street & 89 School Street	14-May-12	\$52,500	2.93%	\$4,300.00	\$4,210.00	\$4,105.00	\$3,985.00	\$3,865.00	\$3,745.00	\$15,235.00	\$12,977.50	
Road, Bridges, Sidewalks and Intersection Improvement Program	03-May-10	\$306,500	2.72%	\$71,350.00	\$10,150.00							
Road, Bridges, Sidewalks and Intersection Improvement Program	02-May-11	\$600,000	2.82%	\$125,400.00	\$121,800.00							
Fire Engine	11-May-11	\$400,000	2.72%	\$101,500.00								
Public Services Administration Bldg.	27-Oct-08	\$20,000	2.95%	\$5,075.00								

Town of Needham  
Capital Improvement Plan  
January 2017

TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVI				DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Amount Issued	Average Rate*	2017	2018	2019	2020	2021	2022	2023 - 2027	After 2027	
Senior Center (Series I)	07-Nov-11	\$1,000,000	3.38%	\$77,256.26	\$75,506.26	\$73,506.26	\$71,506.26	\$69,756.26	\$68,256.26	\$318,781.30	\$310,484.41	
Property Acquisition - 59 Lincoln Street & 89 School Street	14-May-12	\$1,005,000	3.39%	\$78,000.00	\$76,250.00	\$74,250.00	\$72,250.00	\$70,500.00	\$69,000.00	\$322,500.00	\$333,500.00	
Property Acquisition - 37-39 Lincoln Street	16-May-12	\$605,000	3.39%	\$46,800.00	\$45,750.00	\$44,550.00	\$43,350.00	\$42,300.00	\$41,400.00	\$193,500.00	\$200,100.00	
Property Acquisition - 51 Lincoln Street	13-Nov-12	\$950,000	3.39%	\$76,325.00	\$74,575.00	\$72,575.00	\$70,575.00	\$68,825.00	\$67,325.00	\$295,325.00	\$300,150.02	
Street & Traffic Light Improvements	19-May-08	\$25,000	3.34%	\$5,275.00	\$5,100.00							
Road, Bridges, Sidewalks and Intersection Improvement Program	03-May-10	\$120,000	3.13%	\$40,600.00								
Road, Bridges, Sidewalks and Intersection Improvement Program	02-May-11	\$350,000	3.13%	\$116,725.00								
Senior Center (Series II)	07-Nov-11	\$5,050,000	3.54%	\$406,225.00	\$398,575.00	\$390,925.00	\$383,275.00	\$374,350.00	\$365,425.00	\$1,688,812.50	\$1,987,812.50	
Road, Bridges, Sidewalks and Intersection Improvement Program	03-May-10	\$129,000	2.00%	\$31,200.00	\$30,600.00							
Road, Bridges, Sidewalks and Intersection Improvement Program	02-May-11	\$150,000	2.00%	\$36,400.00	\$35,700.00							
Property Acquisition - 59 Lincoln Street & 89 School Street	14-May-12	\$117,500	2.00%	\$31,100.00	\$25,500.00							
Property Acquisition - 37-39 Lincoln Street	16-May-12	\$25,000	2.00%	\$5,200.00	\$5,100.00							
Property Acquisition - 51 Lincoln Street	13-Nov-12	\$150,000	2.00%	\$36,400.00	\$35,700.00							



Town of Needham  
Capital Improvement Plan  
January 2017

<b>TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVI</b>				<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>
Project	TM Vote	Amount Issued	Average Rate*	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023 - 2027</b>	<b>After 2027</b>	
Public Works Infrastructure Program	13-May-13	\$100,000	2.00%	\$26,000.00	\$25,500.00							
Public Works Infrastructure Program	07-May-12	\$210,000	2.00%	\$52,000.00	\$51,000.00							
DPW Complex - Garage Bays	13-May-13	\$800,000	2.09%	\$93,200.00	\$91,600.00	\$90,000.00	\$88,400.00	\$86,800.00	\$85,200.00	\$165,600.00		
Senior Center (Series III)	07-Nov-11	\$1,050,500	2.83%	\$79,300.00	\$78,200.00	\$77,100.00	\$76,000.00	\$74,900.00	\$73,800.00	\$336,225.00	\$397,725.00	
Public Works Infrastructure Program	07-May-12	\$190,000	3.67%	\$52,012.50	\$50,350.00	\$48,450.00						
Public Works Infrastructure Program	13-May-13	\$500,000	3.60%	\$136,875.00	\$132,500.00	\$127,500.00						
Property Acquisition - 66 - 70 Chestnut Street	04-Nov-13	\$1,330,000	3.35%	\$113,400.00	\$110,950.00	\$108,150.00	\$105,350.00	\$102,550.00	\$99,750.00	\$456,750.00	\$541,275.00	
Public Works Infrastructure Program	12-May-14	\$580,000	3.67%	\$158,775.00	\$153,700.00	\$147,900.00						
Central Ave & Elliot Street Bridge Design	14-May-14	\$250,000	3.67%	\$68,437.50	\$66,250.00	\$63,750.00						
Pollard School Roof Replacement	10-Nov-10	\$725,000	3.67%	\$92,375.00	\$90,125.00	\$82,600.00	\$79,800.00	\$77,000.00	\$74,200.00	\$71,400.00		
Pollard School Boiler Replacement	13-May-13	\$565,000	3.22%	\$82,250.00	\$80,150.00	\$78,050.00	\$75,950.00	\$73,500.00	\$71,050.00			
Pollard School Boiler Replacement	13-May-13	\$95,000	2.00%	\$25,900.00	\$20,400.00							
<b>GENERAL FUND DEBT SERVICE WITHIN THE LEVY</b>				\$3,173,327.31	\$2,452,781.92	\$2,028,886.17	\$1,602,968.22	\$1,541,377.52	\$1,503,438.77	\$5,468,838.22	\$4,084,024.43	

Town of Needham  
Capital Improvement Plan  
January 2017

TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE				DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Amount Issued	Average Rate*	2017	2018	2019	2020	2021	2022	2023 - 2027	After 2027	
High Rock School - Designs	01-Nov-06	\$480,000	3.91%	\$27,625.00	\$26,625.00	\$25,593.75						
High Rock & Pollard School Projects	16-May-07	\$1,120,000	3.91%	\$66,300.00	\$63,900.00	\$61,425.00						
High School (Series IIA)	12-May-03	\$9,000,000	3.89%	\$585,650.00	\$564,450.00	\$542,587.50						
High School (Series IIB)	07-Feb-05	\$2,000,000	3.91%	\$116,025.00	\$111,825.00	\$107,493.75						
High Rock & Pollard School Projects (Series III)	16-May-07	\$5,000,000	4.69%	\$293,487.50	\$282,556.25	\$270,962.50						
High School (Series III)	07-Feb-05	\$3,850,000	3.42%	\$283,450.00	\$275,450.00	\$267,450.00	\$259,450.00	\$253,450.00	\$247,200.00	\$1,132,250.00	\$109,200.00	
High Rock & Pollard School Projects (Series IV)	16-May-07	\$10,500,000	3.35%	\$787,862.50	\$772,600.00	\$758,031.25	\$742,075.00	\$720,500.00	\$703,312.50	\$3,231,937.50	\$1,144,000.00	
Newman School Extraordinary Repairs (Series I)	02-Nov-09	\$1,000,000	2.62%	\$110,000.00	\$107,375.00	\$104,500.00	\$101,500.00					
Newman School Extraordinary Repairs (Series III)	02-Nov-09	\$5,000,000	3.35%	\$395,300.00	\$389,700.00	\$383,750.00	\$373,600.00	\$359,600.00	\$348,925.00	\$1,616,700.00	\$539,475.00	
Broadmeadow School	01-May-00	\$8,400,000	3.00%	\$857,150.00	\$828,300.00	\$801,325.00	\$771,225.00	\$741,425.00	\$708,700.00	\$1,320,600.00		
Library Project	07-May-03	\$6,510,000	3.00%	\$902,000.00	\$870,550.00	\$830,475.00	\$796,775.00					
Newman School Extraordinary Repairs (Series IV)	02-Nov-09	\$9,000,000	2.82%	\$675,800.00	\$662,240.00	\$646,420.00	\$628,340.00	\$610,260.00	\$592,180.00	\$2,722,540.00	\$2,895,460.00	
Newman School Extraordinary Repairs (Series V)	02-Nov-09	\$2,200,000	3.39%	\$171,600.00	\$167,750.00	\$163,350.00	\$158,950.00	\$155,100.00	\$151,800.00	\$709,500.00	\$733,700.00	
Eliot School	01-May-00	\$2,562,000	3.94%	\$359,405.00	\$346,840.00	\$314,400.00	\$304,400.00	\$294,400.00	\$284,400.00	\$779,100.00		

Town of Needham  
Capital Improvement Plan  
January 2017

TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVI				DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Amount Issued	Average Rate*	2017	2018	2019	2020	2021	2022	2023 - 2027	After 2027	
High School Series 1	12-May-03	\$4,775,000	3.97%	\$712,625.00	\$674,300.00	\$653,700.00	\$589,000.00	\$560,400.00	\$542,000.00	\$1,965,000.00		
High Rock School Design (Refunding Bond)	01-Nov-06	\$187,770	4.00%	\$8,868.18	\$7,340.00	\$7,340.00	\$31,840.00	\$30,840.00	\$29,840.00	\$118,630.00		
High Rock & Pollard School Projects	16-May-07	\$429,470	4.00%	\$18,527.43	\$16,860.00	\$16,860.00	\$75,660.00	\$68,360.00	\$66,160.00	\$275,970.00		
High School (Series IIA)	12-May-03	\$2,991,900	4.00%	\$125,529.75	\$117,600.00	\$117,600.00	\$602,700.00	\$582,900.00	\$558,200.00	\$1,547,400.00		
High School (Series IIB)	07-Feb-05	\$782,850	4.00%	\$33,598.38	\$30,740.00	\$30,740.00	\$128,740.00	\$124,740.00	\$115,840.00	\$520,730.00		
High Rock & Pollard School Projects (Series III)	16-May-07	\$2,253,010	4.00%	\$116,451.28	\$87,660.00	\$87,660.00	\$342,460.00	\$327,160.00	\$312,060.00	\$1,360,670.00	\$234,600.00	
<b>EXCLUDED FROM LEVY LIMIT DEBT SERVICE</b>				\$6,647,255.02	\$6,404,661.25	\$6,191,663.75	\$5,906,715.00	\$4,829,135.00	\$4,660,617.50	\$17,301,027.50	\$5,656,435.00	

Town of Needham  
Capital Improvement Plan  
January 2017

TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE				DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Amount Issued	Average Rate*	2017	2018	2019	2020	2021	2022	2023 - 2027	After 2027	
Town Hall (Series II)	18-May-09	\$3,500,000	3.36%	\$276,012.50	\$272,112.50	\$267,968.75	\$260,900.00	\$251,150.00	\$243,715.63	\$1,129,487.55	\$394,634.38	
Town Hall (Series III)	18-May-09	\$1,225,000	2.63%	\$101,700.00	\$100,100.00	\$98,500.00	\$96,800.00	\$94,900.00	\$92,900.00	\$430,350.00		
Town Hall (Series IV)	18-May-09	\$970,000	2.80%	\$78,600.00	\$76,950.00	\$75,025.00	\$72,825.00	\$70,625.00	\$68,425.00	\$314,075.00	\$209,437.50	
<b>COMMUNITY PRESERVATION FUND DEBT SERVICE</b>				\$456,312.50	\$449,162.50	\$441,493.75	\$430,525.00	\$416,675.00	\$405,040.63	\$1,873,912.55	\$604,071.88	
Soil Remediation	13-Nov-12	\$140,000	3.31%	\$26,375.00	\$25,500.00							
Construction Equipment	06-May-13	\$210,000	2.00%	\$71,400.00								
<b>RTS ENTERPRISE FUND DEBT SERVICE</b>				\$97,775.00	\$25,500.00							

Town of Needham  
Capital Improvement Plan  
January 2017

TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE				DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Amount Issued	Average Rate*	2017	2018	2019	2020	2021	2022	2023 - 2027	After 2027	
MWPAT 97-13	28-Oct-96	\$67,700	(see note)	\$6,288.05	\$6,106.89	\$6,150.00						
MWPAT 97-33	28-Oct-96	\$180,300	(see note)	\$16,720.92	\$16,208.29	\$16,195.00						
MWPAT 97-63	05-May-97	\$1,019,778	(see note)	\$94,916.69	\$91,683.46	\$91,840.00						
MWPAT 98-10	05-May-97	\$130,200	(see note)	\$12,114.16	\$11,683.18	\$11,685.00						
Sewer Rehabilitation - Rte 128 Area	07-Nov-05	\$2,000,000	4.35%	\$102,500.00								
Sewer Pump Station - GPA	11-May-05	\$500,000	3.17%	\$56,000.00	\$54,000.00	\$52,000.00						
Sewer Rehabilitation - Rte 128 Area	07-Nov-05	\$320,000	3.39%	\$21,937.50	\$21,525.00	\$21,131.25	\$20,700.00	\$20,250.00	\$19,781.25	\$91,143.75	\$46,700.00	
Sewer Pump Station GPA	19-May-08	\$550,000	3.36%	\$42,050.00	\$41,225.00	\$40,437.50	\$39,575.00	\$33,750.00	\$32,968.75	\$151,906.25	\$77,900.00	
Sewer Rehabilitation - Rte 128 Area	07-Nov-05	\$145,000	2.59%	\$16,350.00	\$15,956.25	\$15,525.00	\$10,150.00					
Sewer System Rehabilitation I/I (MWRA)	16-May-07	\$220,990		\$44,198.00								
Sewer Pump Station Design (Reservoir B)	04-May-09	\$90,000	2.79%	\$15,675.00	\$15,225.00							
Sewer Pump Station Reservoir B - MWPAT (Revised 05/23/2013)	07-Nov-11	\$6,034,290	2.15%	\$374,005.59	\$374,065.92	\$374,128.59	\$374,191.96	\$374,256.32	\$374,322.93	\$1,872,660.13	\$2,249,700.92	
Sewer - West Street Force Main	01-May-98	\$568,400	3.98%	\$67,632.50	\$70,232.50	\$67,600.00						
Sewer - West Street Pumping Station	01-May-98	\$1,252,300	3.98%	\$151,669.00	\$149,269.00	\$147,680.00						

Town of Needham  
Capital Improvement Plan  
January 2017

<b>TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVI</b>				<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>
Project	TM Vote	Amount Issued	Average Rate*	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023 - 2027</b>	<b>After 2027</b>	
Sewer Rehabilitation - Rte 128 Area	07-Nov-05	\$500,000	4.00%	\$20,000.00	\$118,000.00	\$109,100.00	\$105,300.00	\$77,000.00	\$74,200.00	\$71,400.00		
Sewer Pump Station Reservoir B - MWPAT CW-11-11A	07-Nov-11	\$78,491	2.15%	\$40,873.49	\$40,519.84							
<b>SEWER ENTERPRISE FUND DEBT SERVICE</b>				\$1,082,930.90	\$1,025,700.33	\$953,472.34	\$549,916.96	\$505,256.32	\$501,272.93	\$2,187,110.13	\$2,374,300.92	
Water System Rehabilitation - Rte 128 Area	15-May-06	\$1,500,000	4.32%	\$102,500.00								
Water System Rehabilitation - Rte 128 Area	15-May-06	\$212,000	3.16%	\$22,400.00	\$21,600.00	\$20,800.00						
Water Storage Tank Rehabilitation	19-May-08	\$655,000	3.16%	\$72,800.00	\$70,200.00	\$67,600.00						
Water Service Connections	01-May-06	\$55,000	2.51%	\$5,487.50	\$5,350.00	\$5,218.75	\$5,075.00					
Water System Rehabilitation - Rte 128 Area	15-May-06	\$100,000	3.41%	\$7,312.50	\$7,175.00	\$7,043.75	\$6,900.00	\$6,750.00	\$6,593.75	\$30,381.25	\$15,700.00	
Water Distribution System	18-May-09	\$400,000	3.02%	\$31,687.50	\$31,031.25	\$30,312.50	\$29,562.50	\$28,812.50	\$28,031.25	\$78,937.50		
MWPAT Water DWS-08-24	19-May-08	\$765,335	2.00%	\$49,347.11	\$49,289.34	\$49,229.64	\$49,168.68	\$49,106.10	\$49,043.56	\$244,221.68	\$194,098.61	
St Mary's Pump Station	13-May-13	\$1,995,000	2.85%	\$146,775.00	\$144,775.00	\$142,775.00	\$140,775.00	\$138,775.00	\$136,775.00	\$650,875.00	\$789,225.00	
Water Treatment Facility	20-May-96	\$1,710,000	3.98%	\$202,593.00	\$201,393.00	\$204,360.00						
Water Treatment Facility	17-Nov-97	\$1,994,300	3.98%	\$236,610.50	\$239,210.50	\$240,760.00						

Town of Needham  
Capital Improvement Plan  
January 2017

<b>TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE</b>				<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>	<b>DEBT SERVICE</b>
Project	TM Vote	Amount Issued	Average Rate*	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023 - 2027</b>	<b>After 2027</b>	
Water Main Improvements	19-May-08	\$400,000	3.95%	\$53,400.00	\$52,000.00	\$50,400.00	\$48,800.00	\$47,200.00	\$45,600.00	\$127,200.00		
St Mary's Pump Station	13-May-13	\$1,700,000	3.36%	\$145,500.00	\$142,350.00	\$138,750.00	\$135,150.00	\$131,550.00	\$127,950.00	\$585,750.00	\$684,125.00	
Water System Rehabilitation - Rte 128 Area (Refunding Bond)	15-May-06	\$638,000	4.00%	\$25,520.00	\$116,660.00	\$114,900.00	\$111,100.00	\$131,800.00	\$127,000.00	\$117,300.00		
<b>WATER ENTERPRISE FUND DEBT SERVICE</b>				\$1,101,933.11	\$1,081,034.09	\$1,072,149.64	\$526,531.18	\$533,993.60	\$520,993.56	\$1,834,665.43	\$1,683,148.61	
<b>TOTAL</b>				\$12,559,533.84	\$11,438,840.09	\$10,687,665.65	\$9,016,656.36	\$7,826,437.44	\$7,591,363.39	\$28,665,553.83	\$14,401,980.84	

Note: Massachusetts Water Pollution Abatement Trust (MWPAT) loans include many communities and multiple loans and are restructured from time to time by the Trust. The program provides grants and other financial assistance which in some instances results in a low or no interest rate loan.  
\* Rate reflects the average rate over the life of the loan.