



Capital Improvement Plan
FY2022-FY2026

The Following is the Capital Improvement Plan (CIP) for the Town of Tewksbury which covers the next five (5) Fiscal Years, 2022-2026. The plan outlines the project requests from each Department and the year in which the project is proposed for funding. The funding sources are either Raise and Appropriate (R & A), transfer from the Stabilization fund, transfer from the Free Cash (FC), transfer from the Enterprise Fund Retained Earnings, Chapter 90, Grants, Gifts or borrowing.

Part I: Glossary of Financial Terms

Part II: Five (5) year CIP

The first page is a summary of the requests by Department, potential funding sources, and the amount requested each of the next five (5) Fiscal Years.

Second page is a summary of the projects that will be funded by either Raise and Appropriate (R & A), transfer from the Stabilization fund, transfer from the Free Cash (FC), transfer from the Enterprise Retained Earning.

Third page is a summary of the projects that will be funded by Chapter 90 funds.

Fourth page is a summary of the General Fund projects that will be funded by borrowing. The summary outlines the annual debt service costs.

Fifth page is a summary of the Enterprise Fund projects, specifically Water Enterprise Fund Projects that will be funded by borrowing. The summary outlines the annual debt service costs.

Part III: Project Narratives

List of all of specific request Project and Narratives submitted by the Departments with proposed funding for each year.

Glossary of Financial Terms

Part I

Glossary of Financial Terms

Appropriation – An authorization granted by a town meeting, city council or other legislative body to expend money and incur obligations for specific public purposes. An appropriation is usually limited in amount and as to the time period within which it may be expended.

Bond – A means to raise money through the issuance of debt. A bond issuer/borrower promises in writing to repay a specified sum of money, alternately referred to as face value, par value or bond principal, to the buyer of the bond on a specified future date (maturity date), together with periodic interest at a specified rate. The term of a bond is always greater than one year.

Bond Authorization – The action of town meeting or a city council authorizing the executive branch to raise money through the sale of bonds in a specific amount and for a specific purpose. Once authorized, issuance is by the treasurer upon the signature of the mayor, or selectmen.

Bond Issue – The actual sale of the entire, or a portion of, the bond amount authorized by a town meeting or city council.

Bond Rating (Municipal) – A credit rating assigned to a municipality to help investors assess the future ability, legal obligation, and willingness of the municipality (bond issuer) to make timely debt service payments. Stated otherwise, a rating helps prospective investors determine the level of risk associated with a given fixed-income investment. Rating agencies, such as Moody's and Standard and Poor's, use rating systems, which designate a letter or a combination of letters and numerals where AAA is the highest rating and C1 is a very low rating.

Bonds Authorized and Unissued – Balance of a bond authorization not yet sold. Upon completion or abandonment of a project, any remaining balance of authorized and unissued bonds may not be used for other purposes, but must be rescinded by town meeting or the city council to be removed from community's books.

Cable Television Franchise Fee - is an annual fee charged by a local government to a private cable television company as compensation for using public property it owns as right-of-way for its cable.

Capital Improvements Program – A blueprint for planning a community's capital expenditures that comprises an annual capital budget and a five-year capital program. It coordinates community planning, fiscal capacity and physical development. While all of the community's needs should be identified in the program, there is a set of criteria that prioritizes the expenditures.

Capital Outlay – The exchange of one asset (cash) for another (capital asset), with no ultimate effect on net assets. Also known as "pay as you go," it is the appropriation and use of available cash to fund a capital improvement, as opposed to incurring debt to cover the cost.

Chapter 90 Highway Funds – State funds derived from periodic transportation bond authorizations and apportioned to communities for highway projects based on a formula under the provisions of MGL Ch. 90 §34. The Chapter 90 formula comprises three variables: local road mileage (58.33 percent) as certified by the Massachusetts Highway Department (MHD), local employment level (20.83 percent) derived the Department of Employment and Training (DET), and population estimates (20.83 percent) from the US Census Bureau. Local highway projects are approved in advance. Later, on the submission of certified expenditure reports to MHD, communities receive cost reimbursements to the limit of the grant.

Community Preservation Fund – A special revenue fund established pursuant to MGL Ch. 44B to receive all monies collected to support a community preservation program, including but not limited to, tax surcharge receipts, proceeds from borrowings, funds received from the Commonwealth, and proceeds from the sale of certain real estate.

Debt Authorization – Formal approval by a two thirds vote of town meeting or city council to incur debt, in accordance with procedures stated in MGL Ch. 44 §§1, 2, 3, 4a, 6-15.

Debt Exclusion – An action taken by a community through a referendum vote to raise the funds necessary to pay debt service costs for a particular project from the property tax levy, but outside the limits under Proposition 2½. By approving a debt exclusion, a community calculates its annual levy limit under Proposition 2½, then adds the excluded debt service cost. The amount is added to the levy limit for the life of the debt only and may increase the levy above the levy ceiling.

Debt Service – The repayment cost, usually stated in annual terms and based on an amortization schedule, of the principal and interest on any particular bond issue.

Enterprise Fund – An enterprise fund, authorized by MGL Ch. 44 §53F½, is a separate accounting and financial reporting mechanism for municipal services for which a fee is charged in exchange for goods or services. It allows a community to demonstrate to the public the portion of total costs of a service that is recovered through user charges and the portion that is subsidized by the tax levy, if any. With an enterprise fund, all costs of service delivery--direct, indirect, and capital costs—are identified. This allows the community to recover total service costs through user fees if it chooses. Enterprise accounting also enables communities to reserve the "surplus" or net assets unrestricted generated by the operation of the enterprise rather than closing it out to the general fund at year-end. Services that may be treated as enterprises include, but are not limited to, water, sewer, hospital, and airport services.

Free Cash (Also Budgetary Fund Balance) – Remaining, unrestricted funds from operations of the previous fiscal year including unexpended free cash from the previous year, actual receipts in excess of revenue estimates shown on the tax recapitulation sheet, and unspent amounts in budget line-items. Unpaid property taxes and certain deficits reduce the amount that can be certified as free cash. The calculation of free cash is based on the balance sheet as of June 30, which is submitted by the community's auditor, accountant, or comptroller. Important: free cash is not available for appropriation until certified by the Director of Accounts.

Levy – The amount a community raises through the property tax. The levy can be any amount up to the levy limit, which is re-established every year in accordance with Proposition 2½ provisions.

Local Appropriating Authority – In a town, the town meeting has the power to appropriate funds, including the authorization of debt. In a city, the city council has the power upon the recommendation of the mayor.

Long-Term Debt – Community borrowing, or outstanding balance at any given time, involving loans with a maturity date of 12 months or more.

Net Assets Unrestricted (formerly Retained Earnings) – An equity account reflecting the accumulated earnings of an enterprise fund that may be used to fund capital improvements, to reimburse the general fund for prior year subsidies, to reduce user charges and to provide for enterprise revenue deficits (operating loss).

Overlay (Overlay Reserve or Allowance for Abatements and Exemptions) – An account established annually to fund anticipated property tax abatements, exemptions and uncollected taxes in that year. The overlay reserve need not be funded by the normal appropriation process, but rather is raised on the tax rate recapitulation sheet.

Overlay Surplus – Any balance in the overlay account of a given year in excess of the amount remaining to be collected or abated can be transferred into this account. Within ten days of a written request by the chief executive officer of a city or town, the assessors must provide a certification of the excess amount of overlay available to transfer, if any. Overlay surplus may be appropriated for any lawful purpose. At the end of each fiscal year, unused overlay surplus is "closed" to surplus revenue; in other words, it becomes a part of free cash.

Short-Term Debt – Outstanding balance, at any given time, on amounts borrowed with a maturity date of 12 months or less.

Stabilization Fund – A fund designed to accumulate amounts for capital and other future spending purposes, although it may be appropriated for any lawful purpose (MGL Ch. 40 §5B). Communities may establish one or more stabilization funds for different purposes and may appropriate into them in any year an amount not to exceed ten percent of the prior year's tax levy. The total of all stabilization fund balances shall not exceed ten percent of the community's equalized value, and any interest shall be added to and become a part of the funds. A two-thirds vote of town meeting or city council is required to establish, amend the purpose of, or appropriate money into or from the stabilization fund.

Capital Improvement Plan
Five (5) Year Plan FY2022-FY2026
Part II

**TOWN OF TEWKSBURY
CAPITAL PLANNING PROGRAM
FISCAL YEARS 2022-2026
SUMMARY**

DEPARTMENT	PROJECT/PROGRAM	FUNDING SOURCE	FY2022	FY2023	FY2024	FY2025	FY2026	Total
Facilities and Grounds	Police Station	R&A/Stab. Fund/CPA Funds/Free Cash	257,668	-	-	-	-	257,668
	Library	R&A/Stab. Fund/CPA Funds/Free Cash	150,000	150,000	25,000	400,000	-	725,000
	Town Hall and Town Hall Annex	R&A/Stab. Fund/CPA Funds/Free Cash	25,000	25,000	-	-	-	50,000
	Senior Center	R&A/Stab. Fund/CPA Funds/Free Cash	25,000	70,000	50,000	-	-	145,000
	Facilities and Grounds Vehicles and Equipment	R&A/Stab. Fund/CPA Funds/Free Cash	-	-	-	-	-	-
	Recreation Fields and Facilities Improvements	R&A/Stab. Fund/CPA Funds/Free Cash	94,000	500,000	150,000	150,000	150,000	1,044,000
	Total Facilities and Grounds		551,668	745,000	225,000	550,000	150,000	1,044,000
Fire Department	New Ambulance and Equipment	R&A/Stab. Fund/Free Cash	250,000	-	-	250,000	-	500,000
	New Rescue Truck	R&A/Stab. Fund/Free Cash	190,000	-	-	-	-	190,000
	North Fire Station Renovation	R&A/Stab. Fund/Free Cash	-	1,250,000	-	-	-	1,250,000
	New Fire Engine	R&A/Stab. Fund/Free Cash	-	700,000	-	-	-	700,000
	South Fire Station Renovations	R&A/Stab. Fund/Free Cash	-	-	50,000	-	-	50,000
	Total Fire Department		440,000	1,950,000	50,000	250,000	-	2,690,000
Public Works Department								
	Pavement Management Preventative Maintenance	R&A/Stab. Fund/FC/Borrowing/CH90	200,000	350,000	350,000	350,000	350,000	1,600,000
	Pavement Management Reconstruction/Resurfacing	R&A/Stab. Fund/FC/Borrowing/CH90	445,000	445,000	445,000	445,000	445,000	2,225,000
	Sidewalks	R&A/Stab. Fund/FC/Borrowing/CH90	870,000	650,000	650,000	650,000	650,000	3,470,000
	Improvement Projects	R&A/Stab. Fund/FC/Borrowing/CH90	150,000	200,000	65,000	265,000	65,000	745,000
	Project Development	R&A/Stab. Fund/FC/Borrowing/CH90	130,000	130,000	165,000	200,000	165,000	790,000
	Total Transportation		1,795,000	1,775,000	1,675,000	1,910,000	1,675,000	8,830,000
DPW Facilities/Misc.								
	DPW/School Maintenance Facility	R&A/Stab. Fund/FC/Borrowing	15,000,000	15,000,000	-	-	-	30,000,000
	Total DPW Facilities/Misc.		15,000,000	15,000,000	-	-	-	30,000,000
Public Works Department								
	Vehicles and Equipment	R&A/Stab. Fund/Free Cash	440,000	420,000	394,000	370,000	330,000	1,954,000
	Total Fleet and Equipment		440,000	420,000	394,000	370,000	330,000	1,954,000
Grand Total DPW			17,235,000	17,195,000	2,069,000	2,280,000	2,005,000	40,784,000
			18,226,668	19,890,000	2,344,000	3,080,000	2,155,000	45,695,668
DEPARTMENT								
	Public Works Department	FUNDING SOURCE	FY2021	FY2022	FY2023	FY2024	FY2025	Total
Sewer Enterprise Fund	Inflow and Infiltration I/I Control	Borrowing/R&A/Retained Earnings	50,000	350,000	350,000	350,000	350,000	1,450,000
	Sewer Pump Station Improvements	Borrowing/R&A/Retained Earnings	325,000	225,000	250,000	250,000	250,000	1,300,000
	Public Works (Sewer)	Borrowing/R&A/Retained Earnings	-	-	-	-	-	-
	Total Sewer Enterprise Fund	R&A/Ent. Fund	72,500	100,000	10,500	27,500	40,000	640,000
		447,500	675,000	610,500	627,500	640,000	3,000,500	
Public Works Department								

**TOWN OF TEWKSBURY
CAPITAL PLANNING PROGRAM
FISCAL YEARS 2022-2026
SUMMARY**

DEPARTMENT	PROJECT/PROGRAM	FUNDING SOURCE	FY2022	FY2023	FY2024	FY2025	FY2026	Total
Water Enterprise Fund								
Public Works (Water)	Hydrant Replacement Program	R&A Ent. Fund/Retained Earnings	125,000	125,000	125,000	125,000	125,000	625,000
Public Works (Water)	Water Distribution System Improvements	Borrowing/R&A/Retained Earnings	18,100,000	2,100,000	2,100,000	2,100,000	2,100,000	26,500,000
Public Works (Water)	Water Treatment Plant and Tank Maint./Upgrades	Borrowing/R&A/Retained Earnings	160,000	1,000,000	-	-	-	1,160,000
Public Works (Water)	Fleet and Equipment Replacement Program	R&A Ent. Fund/Retained Earnings	172,500	100,000	10,500	27,500	40,000	350,500
Total Water Enterprise Fund			18,557,500	3,325,000	2,235,500	2,252,500	2,265,000	28,635,500
Public Works Department								
Stormwater Enterprise Fund								
Public Works (Stormwater)	Drains	R&A Ent. Fund/Retained Earnings	480,000	450,000	300,000	550,000	600,000	2,380,000
Public Works (Stormwater)	Stormwater Compliance	R&A Ent. Fund/Retained Earnings	-	-	-	-	-	-
Public Works (Stormwater)	Project Development	R&A Ent. Fund/Retained Earnings	35,000	35,000	210,000	55,000	55,000	390,000
Total Stormwater Enterprise Fund			515,000	485,000	510,000	605,000	655,000	2,770,000
Telemedia Department								
Telemedia Enterprise Fund								
Telemedia Department	Closed Captioning System	R&A Ent. Fund/Retained Earnings	174,200	-	-	-	-	174,200
Telemedia Department	Town Hall Video Upgrade	R&A Ent. Fund/Retained Earnings	-	178,000	-	-	-	178,000
Telemedia Department	TMHS Studio Upgrade	R&A Ent. Fund/Retained Earnings	-	-	131,000	-	-	131,000
Telemedia Department	Custom Broadcast Flypack	R&A Ent. Fund/Retained Earnings	-	-	-	50,000	-	50,000
Telemedia Department	Broadcast Server Replacement	R&A Ent. Fund/Retained Earnings	-	-	-	-	56,000	56,000
Total Telemedia Enterprise Fund			174,200	178,000	131,000	50,000	56,000	589,200
Grand Total All Capital Projects Per Year			37,920,868	24,553,000	5,831,000	6,615,000	5,771,000	
Grand Total All Projects All Years								80,690,868

**TOWN OF TEWKSBURY
CAPITAL PLANNING PROGRAM
FISCAL YEARS 2022-2026**

GENERAL FUND PROJECTS THAT WILL BE FUNDED BY RAISE AND APPROPRIATE, TRANSFER FROM STABILIZATION FUND, CPA FUNDS OR FREE CASH

DEPARTMENT	PROJECT/PROGRAM	FY2022	FY2023	FY2024	FY2025	FY2026	Total
Facilities and Grounds	Police Station	257,668	-	-	-	-	257,668
	Library	150,000	150,000	25,000	400,000	-	725,000
	Town Hall and Town Hall Annex	25,000	25,000	-	-	-	50,000
	Senior Center	25,000	70,000	50,000	-	-	145,000
	Facilities and Grounds Vehicles and Equipment	-	-	-	-	-	-
	Recreation Fields and Facilities Improvements	94,000	50,000	150,000	150,000	150,000	1,044,000
Total Facilities and Grounds	551,668	745,000	225,000	550,000	150,000	2,221,668	
Fire Department	New Ambulance and Equipment	250,000	-	-	250,000	-	500,000
	New Rescue Truck	190,000	-	-	-	-	190,000
	North Fire Station Renovation	-	1,250,000	-	-	-	1,250,000
	New Fire Engine	-	700,000	-	-	-	700,000
	South Fire Station Renovations	-	-	50,000	-	-	50,000
	Total Fire Department	440,000	1,950,000	50,000	250,000	-	2,690,000
Public Works Department Transportation	Pavement Management Preventative Maintenance	-	-	-	-	-	-
	Pavement Management Reconstruction/Resurfacing	-	-	-	-	-	-
	Sidewalks	250,000	250,000	250,000	250,000	250,000	1,250,000
	Improvement Projects	-	-	-	-	-	-
	Project Development	-	-	-	-	-	-
	Total Transportation	250,000	250,000	250,000	250,000	250,000	1,250,000
DPW Facilities/Misc.	DPW/School Maintenance Facility	-	-	-	-	-	-
	Total DPW Facilities/Misc.	-	-	-	-	-	-
Public Works Department Fleet and Equipment	Vehicles and Equipment	440,000	420,000	394,000	370,000	330,000	1,954,000
	Total Fleet and Equipment	440,000	420,000	394,000	370,000	330,000	1,954,000
	Total DPW	690,000	670,000	644,000	620,000	580,000	3,204,000
	Grand Total General Fund	1,681,668	3,365,000	919,000	1,420,000	730,000	8,115,668

TOWN OF TEWKSBURY
 CAPITAL PLANNING PROGRAM
 FISCAL YEARS 2022-2026

PROJECTS FUNDED BY CHAPTER 90, OTHER MA HIGHWAY PROGRAMS AND VARIOUS STATE AND PRIVATE GRANTS

DEPARTMENT	PROJECT/PROGRAM	FY2022	FY2023	FY2024	FY2025	FY2026	Total
Public Works Department							
Transportation							
Public Works (General Fund)	Pavement Management Preventative Maintenance	200,000	350,000	350,000	350,000	350,000	1,600,000
Public Works (General Fund)	Pavement Management Reconstruction/Resurfacing	445,000	445,000	445,000	445,000	445,000	2,225,000
Public Works (General Fund)	Sidewalks	620,000	400,000	400,000	400,000	400,000	2,220,000
Public Works (General Fund)	Improvement Projects	150,000	200,000	65,000	265,000	65,000	745,000
Public Works (General Fund)	Project Development	130,000	130,000	165,000	200,000	165,000	790,000
Total Transportation		1,545,000	1,525,000	1,425,000	1,660,000	1,425,000	7,580,000

**TOWN OF TEWKSBURY
CAPITAL PLANNING PROGRAM
FISCAL YEARS 2022-2026**

ENTERPRISE FUND PROJECTS THAT WILL BE FUNDED BY RAISE AND APPROPRIATE, RETAINED EARNINGS OR ENTERPRISE STABILIZATION FUND

DEPARTMENT	PROJECT/PROGRAM	FY2022	FY2023	FY2024	FY2025	FY2026	Total
Public Works Department							
Sewer Enterprise Fund							
Public Works (Sewer)	Inflow and Infiltration I/I Control	50,000	350,000	350,000	350,000	350,000	1,450,000
Public Works (Sewer)	Sewer Pump Station Improvements	325,000	225,000	250,000	250,000	250,000	1,300,000
Public Works (Sewer)	Collections System Upgrades	-	-	-	-	-	-
Public Works (Sewer)	Fleet and Equipment Replacement Program	72,500	100,000	10,500	27,500	40,000	250,500
Total Sewer Enterprise Fund		447,500	675,000	610,500	627,500	640,000	3,000,500
Public Works Department							
Water Enterprise Fund							
Public Works (Water)	Hydrant Replacement Program	125,000	125,000	125,000	125,000	125,000	625,000
Public Works (Water)	Water Distribution System Improvements	1,600,000	100,000	100,000	100,000	100,000	2,000,000
Public Works (Water)	Water Treatment Plant and Tank Maint./Upgrades	160,000	-	-	-	-	160,000
Public Works (Water)	Fleet and Equipment Replacement Program	172,500	100,000	10,500	27,500	40,000	350,500
Total Water Enterprise Fund		2,057,500	325,000	235,500	252,500	265,000	3,135,500
Public Works Department							
Stormwater Enterprise Fund							
Public Works (Stormwater)	Drains	480,000	450,000	300,000	550,000	600,000	2,380,000
Public Works (Stormwater)	Stormwater Compliance	-	-	-	-	-	-
Public Works (Stormwater)	Project Development	35,000	35,000	210,000	55,000	55,000	390,000
Total Stormwater and Drainage		515,000	485,000	510,000	605,000	655,000	2,770,000
Telemedia Department							
Telemedia Enterprise Fund							
Telemedia Department	Closed Captioning System	174,200	-	-	-	-	174,200
Telemedia Department	Town Hall Video Upgrade	-	178,000	-	-	-	178,000
Telemedia Department	TMHS Studio Upgrade	-	-	131,000	-	-	131,000
Telemedia Department	Custom Broadcast Flypack	-	-	-	50,000	-	50,000
Telemedia Department	Broadcast Server Replacement	-	-	-	-	56,000	56,000
Total Telemedia Enterprise Fund		174,200	178,000	131,000	50,000	56,000	589,200
Grand Total Per Year		3,194,200	1,663,000	1,487,000	1,535,000	1,616,000	9,495,200
Grand Total All Projects All Years							
<i>Bold and Italics in Sewer for Inflow and Infiltration I/I Control FY20 Pulte Gift Account.</i>							

GENERAL FUND DEBT									
GENERAL FUND CAPITAL PROJECTS TO BE APPROPRIATED THROUGH BORROWING									
FISCAL YEARS 2022-2026									
	Amount	Debt Term	Interest Rate	FY2022	FY2023	FY2024	FY2025	FY2026	
FISCAL YEAR 2022 CAPITAL PROJECTS									
DPW/School Maintenance Facility Phase 1	15,000,000	20	2.50%	875,172	875,172	875,172	875,172	875,172	
TOTAL FY22 Debt				875,172	875,172	875,172	875,172	875,172	
FISCAL YEAR 2023 CAPITAL PROJECTS									
DPW/School Maintenance Facility Phase 2	15,000,000	20	2.50%	875,172	875,172	875,172	875,172	875,172	
TOTAL FY23 Debt				875,172	875,172	875,172	875,172	875,172	
FISCAL YEAR 2024 CAPITAL PROJECTS									
TOTAL FY24 Debt	-			-	-	-	-	-	
FISCAL YEAR 2025 CAPITAL PROJECTS									
TOTAL FY25 Debt	-			-	-	-	-	-	
FISCAL YEAR 2026 CAPITAL PROJECTS									
TOTAL FY26 Debt	-			-	-	-	-	-	
Total New Exempt Debt									
Total Existing Exempt Debt				12,042,522	11,524,944	11,304,069	11,036,819	10,475,863	
Total All Exempt Debt				12,042,522	11,524,944	11,304,069	11,036,819	10,475,863	
Increase Over Previous Fiscal Year Debt Service				(327,148)	(517,578)	(220,875)	(267,250)	(560,956)	
Total New Non-Exempt Debt				875,172	1,750,344	1,750,344	1,750,344	1,750,344	
Total Existing Non Exempt Debt				288,281	278,031	267,781	259,581	253,431	
Total All Non-Exempt Debt				1,163,453	2,028,375	2,018,125	2,009,925	2,003,775	
Increase Over Previous Fiscal Year Debt Service				854,722	1,740,094	1,729,844	1,731,894	1,735,994	
Total New CPA Existing Debt				-	-	-	-	-	
Total CPA Existing Debt				328,900	317,400	305,900	300,438	294,688	
Total All CPA Debt				328,900	317,400	305,900	300,438	294,688	
Increase Over Previous Fiscal Year Debt Service				(11,500)	(11,500)	(23,000)	(16,963)	(11,213)	
Grand Total All Debt				13,534,875	13,870,719	13,628,094	13,347,182	12,774,325	
Increase Over Previous Fiscal Year Debt Service				516,074	335,844	(242,625)	(280,913)	(572,856)	

WATER ENTERPRISE FUND DEBT										
CAPITAL PROJECT WATER ENTERPRISE FUNDS TO BE APPROPRIATED THROUGH BORROWING										
FISCAL YEARS 2022-2026										
	Amount	Debt Term	Interest Rate	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	
FISCAL YEAR 2022 CAPITAL PROJECTS										
Water Distribution System Improvements	1,500,000	10	2.50%	187,500	183,750	180,000	176,250	172,500	168,750	
DPW/School Maintenance Facility	15,000,000	20	2.50%	124,914	210,188	206,625	203,063	199,500	195,938	
TOTAL FY22 Debt	16,500,000			312,414	393,938	386,625	379,313	372,000	364,688	
FISCAL YEAR 2023 CAPITAL PROJECTS										
Water Distribution	2,000,000	10	2.75%		255,000	249,500	244,000	238,500	233,000	
Water Tank Upgrades	1,000,000				127,500	124,750	122,000	119,250	116,500	
TOTAL FY23 Debt	3,000,000			-	382,500	374,250	366,000	357,750	349,500	
FISCAL YEAR 2024 CAPITAL PROJECTS										
Water Distribution System Improvements	2,000,000	10	2.75%			255,000	249,500	244,000	238,500	
TOTAL FY24 Debt	2,000,000			-	-	255,000	249,500	244,000	238,500	
FISCAL YEAR 2025 CAPITAL PROJECTS										
Water Distribution System Improvements	2,000,000	10	2.75%				255,000	249,500	244,000	
TOTAL FY25 Debt	2,000,000			-	-	-	255,000	249,500	244,000	
FISCAL YEAR 2026 CAPITAL PROJECTS										
Water Distribution System Improvements	2,000,000	10	2.75%					255,000	249,500	
TOTAL FY26 Debt	2,000,000			-	-	-	-	255,000	249,500	

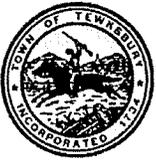
TOTAL ALL NEW DEBT				312,414	776,438	1,015,875	1,249,813	1,478,250	1,446,188
TOTAL EXISTING DEBT WATER		FY21		2,364,357	2,191,025	2,136,275	1,926,025	1,694,630	1,612,730
GRAND TOTAL EXISTING AND NEW DEBT SERVICE				2,676,771	2,967,462	3,152,150	3,175,838	3,172,880	3,058,918
INCREASE OVER PREVIOUS FISCAL YEAR'S DEBT SERVICE				175,690	290,691	184,688	23,688	(2,957)	(113,962)

**TOWN OF TEWKSBURY
CAPITAL PLANNING PROGRAM
FISCAL YEARS 2022-2026
SUMMARY**

Capital Plan Summary	FY2022	FY2023	FY2024	FY2025	FY2026	Total
General Fund	18,226,668	19,890,000	2,344,000	3,080,000	2,155,000	45,695,668
Sewer Enterprise Fund	447,500	675,000	610,500	627,500	640,000	3,000,500
Water Enterprise Fund	18,557,500	3,325,000	2,235,500	2,252,500	2,265,000	28,635,500
Stormwater Enterprise Fund	515,000	485,000	510,000	605,000	655,000	2,770,000
Telemedia Enterprise Fund	174,200	178,000	131,000	50,000	56,000	589,200
Total Capital Plan Funded	37,920,868	24,553,000	5,831,000	6,615,000	5,771,000	80,690,868
Annual Capital Improvement Plan Cost						
R&A or Transfer from Stabilization Fund or Free Cash	1,681,668	3,365,000	919,000	1,420,000	730,000	8,115,668
Chapter 90, Other MA Highway Programs and Grants	1,545,000	1,525,000	1,425,000	1,660,000	1,425,000	7,580,000
General Fund Debt Service	875,172	1,750,344	1,750,344	1,750,344	1,750,344	7,876,548
R&A or Transfer from Sewer Enterprise Fund	447,500	675,000	610,500	627,500	640,000	3,000,500
R&A or Transfer from Water Enterprise Fund	2,057,500	325,000	235,500	252,500	265,000	3,135,500
R&A or Transfer from Stormwater Enterprise Fund	515,000	485,000	510,000	605,000	655,000	2,770,000
R&A or Transfer from Telemedia Enterprise Fund	174,200	178,000	131,000	50,000	56,000	589,200
Water Enterprise Funds Debt Service	312,414	776,438	1,015,875	1,249,813	1,478,250	4,832,789
Total Fiscal Year Cost	7,608,454	9,079,782	6,597,219	7,615,157	6,999,594	37,900,205

Capital Improvement Plan
Project Narratives
Part III

Facilities and Grounds



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Police Department Gym

Date: 3-1-21

Project ID Number: _____

Revision Date:

Submitted By: Police Chief

Department: Police

First Year Submission: 2021

Priority: 1

Description of Project: Upgrade TPD Gym and Cardio area.

Justification/Benefit: Currently the TPD Gym and Cardio area has old equipment, most donated from years ago from old gyms. Fitness is of vital importance to the mental and physical wellbeing of our Police Officers. We have formed a Wellness Committee and have allowed for workout time when staffing allows because we believe that physically fit officers suffer less injury, use less sick time, have better stress management and are overall better employees. It cannot be understated the importance of providing an upgraded area for officers to workout. Now more than ever, our essential front line workers during this COVID pandemic, the stress that has been placed on policing, has increased the level of on the job stress which can lead to issues with PTSD, Cumulative PTSD, depression, anxiety, alcohol and substance use issues. Having an upgraded facility would be another step in officer's benefiting from physical fitness.

Impact if not completed: Having new modern equipment will reduce any risk of injury with older equipment, create a positive space for new and innovative workouts to keep people engaged in physical fitness and encourage others to begin to see the benefits to fitness. Without this upgrade the program won't be as successful as it should be with the ultimate goal of increasing health and wellness to our officers so they can be more productive officers.

Timeframe: 6 months

Replace. Freq: 5 Years

Stakeholders: Although this is a direct benefit to the officers at TPD, it will impact how officers react to stress and treat the public. I firmly believe this will have a tremendous impact on moral, officer's mental health and will show when officers are dealing with the public in a professional manner.

Operating Budget Impact: No impact

Funding Source: Stabilization Fund, Free Cash or raise and Appropriate

Capital Funding Request Fiscal Year

Table with 7 columns: Fiscal Year, 2022, 2023, 2024, 2025, 2026, Totals. Rows include Site Acquisition, Design/Engineer, Construction, Equipment, Contingency, and Totals.

Basis of Cost Projection: Vender Estimate



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Security and Surveillance Upgrade to Police Department Date: 12/03/20
 Project ID Number: _____ Revision Date: _____
 Submitted By: Ryan M. Columbus Chief of Police Department: Police
 First Year Submission: 2021 Priority: Yes

Description of Project: Currently TPD has outdated cameras and locking devices within the department. There have been replacements over the years, however now we have a mix match of systems that do not work with one another. The recommendation from our IT Department is to replace the locks, key fob and cameras and have it all on one system. This will be a much-needed upgrade that will enhance the overall security of the police department.

Justification/Benefit: Currently our door access system and video security systems are independent of each other. The door access system has not been upgraded from either the hardware or software perspective since the initial installation and the unsupported database only runs on an unsupported PC operating system. We have some devices that have failed, and the only remedy is to purchase antiquated equipment with no warranty or support on surplus Internet sellers. We are unable to expand the system to the changing needs of the department. Our video systems have seen some periodic updates in hardware, but we still support 17 analogue cameras that suffer frequent outages due to older wiring that has been re-routed during the dispatch move project. The upgrade and combining of both video and door systems will enhance security and accountability using a current, supported platform that will be scalable for our future needs.

Impact if not completed: Currently we are fixing and trying to replace items that we cannot locate any longer because the components are obsolete. If we meet some of our immediate needs (Evidence rooms) with other solutions that are not integrated we will continue to spend money trying to support the obsolete door system while frustrating users with multiple door access devices. Accountability or investigating incidents would now involve multiple platforms with varying degrees of reporting capabilities.

Timeframe: As soon as possible

Replace. Freq: Begin to replace analogue cameras in rotation through the normal budgeting process. Proposed new system will run on fully supported existing IT resources.

_____ Years

Stakeholders: Police Department Administration and personnel

Operating Budget Impact:
 One time expenditure.

Funding Source: Stabilization Fund, Free Cash or Raise and Appropriate

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$78,333.09	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Basis of Cost Projection: Vendor Estimate



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Police Department Training Room

Date: 3-1-21

Project ID Number: _____

Revision Date:

Submitted By: Police Chief

Department: Police

First Year Submission: 2020

Priority: 1

Description of Project: Department's Training/Community Room has not seen any upgrades in the sixteen (16) years. Delphi Technology Solutions has received a proposal to upgrade the current facility with modern state-of-the-art audio visual and computer equipment. This proposal of approximately \$142,000 would replace all the antiquated existing equipment and bring the Department's Training Room in line with all of our other modern equipment which is necessary to improve community.

Justification/Benefit: This upgrade is needed since the training room is old and outdated and in addition to the room serves as the Town's Emergency Operations Center (EOC).

Impact if not completed: Training becomes more difficult since technology is unreliable and outdated

Timeframe: 6 months

Replace. Freq: 10 Years

Stakeholders: Public Safety Employees, Town Employees and residents

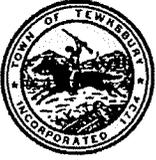
Operating Budget Impact: No impact

Funding Source: Stabilization Fund, Free Cash and Raise and Appropriate

Capital Funding Request

Fiscal Year	2021	2022	2023	2024	2025	Totals
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineer	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$142,000	\$0	\$0	\$0	\$0	\$142,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
Totals	\$142,000	\$0	\$0	\$0	\$0	\$142,000

Basis of Cost Projection: Vender Estimate



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Facility Upgrades and Improvements -Library

Date: 3-1-21

Submitted By: Vincent Bomal, Facilities and Grounds Manager

Department: Facilities and Grounds

First Year Submission: FY2019

Description of Project: The Library was built in 1998 and over the next few years will need some interior renovations and upgrades. Fiscal Year 2022 installation of new carpet throughout the first floor including entries and offices. The current carpet is 20 years old; Fiscal Year 2023 new carpet throughout the entire second floor. The current carpet is 20 years old; Fiscal Year 2024 installation of new entry in the Children’s area to provide access to the rear of the building for Children’s Events; Fiscal Year 2025 new roof which will be 25 years old and in need of replacement.

Justification/Benefit:

Addressing needed improvements and upgrades in the near future will be more cost effective in the long run and insure the longer life expectancy for the building.

Impact if not completed:

Delaying improvements will be more costly and the longer the buildings go without proper maintenance there will be a better chance of larger more costly problems occurring.

Timeframe: 6 months

Replace Freq: 20 Years

Stakeholders: Library employees and residents who utilize the building.

Operating Budget Impact: Less funding will be needed in the Department’s operating budget for ongoing maintenance. There would be risk of costly emergency repairs if the roof replacement is delayed

Funding Source: Tax Levy, Free Cash or Stabilization Fund

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$150,000	\$150,000	\$25,000	\$400,000	\$0.00	\$725,000
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$150,000	\$150,000	\$25,000	\$400,000	\$0	\$725,000

Basis of Cost Projection: Based Upon Estimates from Director of Facilities and Ground



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Facility Upgrades and Improvements - Town Hall Annex

Date: 3-1-21

Submitted By: Vincent Bomal, Facilities and Grounds Manager

Department: Facilities and Grounds

First Year Submission: FY2019

Description of Project: The Town Hall Annex was built in 1967 and over the next few years and will need some interior upgrades. In Fiscal Year 2022 new flooring in the corridors and kitchen area and in Fiscal Year 2023 upgrades to the Restrooms to include upgrade to plumbing, new fixtures, petitions, painting and new title floor.

Justification/Benefit:

Addressing needed improvements and upgrades in the near future will be more cost effective in the long run and insure the longer life expectancy for the building.

Impact if not completed:

Delaying improvements will be more costly and the longer the buildings go without proper maintenance there will be a better chance of larger more costly problems occurring.

Timeframe: 6 months

Replace Freq: 20 Years

Stakeholders: Town Hall Annex employees and residents who utilize the building.

Operating Budget Impact: Less funding will be needed in the Department's operating budgets for ongoing maintenance.

Funding Source: Tax Levy, Free Cash or Stabilization Fund

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$25,000.00	\$25,000.00	\$0.00	\$0.00	\$0.00	\$50,000
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$25,000.00	\$25,000.00	\$0.00	\$0.00	\$0.00	\$50,000

Basis of Cost Projection: Based Upon Estimates from Director of Facilities and Ground



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Facility Upgrades and Improvements -Senior Center

Date: 3-1-21

Submitted By: Vincent Bomal, Facilities and Grounds Manager

Department: Facilities and Grounds

First Year Submission: FY2019

Description of Project: The original portion of the Senior Center was built in 1919 and the larger new addition was built in 2009. Over the next few years will need some interior renovations and upgrades. Fiscal Year 2022 Atrium Lights; Fiscal Year 2023 renovation of restrooms to include plumbing upgrades, new fixtures, petitions, painting and title floor; Fiscal Year 2024 renovation and upgrade of kitchen area to include plumbing upgrades, new equipment, painting and title floor.

Justification/Benefit:

Addressing needed improvements and upgrades in the near future will be more cost effective in the long run and insure the longer life expectancy for the building.

Impact if not completed:

Delaying improvements will be more costly and the longer the buildings go without proper maintenance there will be a better chance of larger more costly problems occurring.

Timeframe: 6 months

Replace Freq: 20 Years

Stakeholders: Senior Center employees and residents who utilize the building.

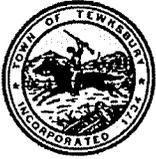
Operating Budget Impact: Less funding will be needed in the Department's operating budget for ongoing maintenance.

Funding Source: Tax Levy, Free Cash or Stabilization Fund

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$25,000.00	\$70,000.00	\$50,000.00	\$0.00	\$0.00	\$145,000
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$25,000.00	\$70,000.00	\$50,000.00	\$0.00	\$0.00	\$145,000

Basis of Cost Projection: Based Upon Estimates from Director of Facilities and Ground



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Facility Upgrades and Improvements -Recreation Facilities and Vehicles and Equipment

Date: 3-1-21

Submitted By: Vincent Bomal, Facilities and Grounds Manager

Department: Facilities and Grounds

First Year Submission: FY2019

Description of Project: The Livingston Street Recreation Complex and Frasca Fields are heavily used by youth sports and for Town events. Over the next few years improvements will be needed to insure the facilities are maintained properly and safe. Fiscal Year 2022 resurface and new equipment for the Skateboard Park; Fiscal Year 2023 Install Lights at Obdens Field; Fiscal Year 2024 remodel and expand Facilities and Grounds garage/building to include new bay, restrooms, breakroom and office; Fiscal Year 2025 pave and/or improve parking lots access and parking lots for recreation facilities and Fiscal Year 2026 pave and/or improve parking lots access and parking lots for recreation facilities.

Justification/Benefit:

Addressing needed improvements and upgrades in the near future will be more cost effective in the long run and insure the longer life expectancy for the facilities and insure they are safe. The current lighting is outdated and inefficient. The current drainage is not sufficient and causes the area to flood.

Impact if not completed:

Delaying improvements will be more costly and the longer the fields and facilities go without proper maintenance there will be a better chance of larger more costly problems occurring.

Timeframe: 6 months

Replace Freq: 20 Years

Stakeholders: Facilities and Grounds employees and residents who utilize the Recreation fields and facilities.

Operating Budget Impact: Less funding will be needed in the Department’s operating budgets for ongoing maintenance.

Funding Source: Tax Levy, CPA Funds, Free Cash or Stabilization Fund

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineer	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$63,000	\$500,000	\$150,000	\$150,000	\$150,000	\$1,013,000
Equipment	\$31,000	\$0	\$0	\$0	\$0	\$31,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
Totals	\$94,000	\$500,000	\$150,000	\$150,000	\$150,000	\$1,044,000

Basis of Cost Projection: Based Upon Estimates from Director of Facilities and Ground

Fire Department



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: New Ambulance and equipment

Date: 1/18/2021

Project ID Number: _____

Revision Date: _____

Submitted By: Joseph W. Kearns Fire Chief

Department: Fire

First Year Submission: 2019

Priority: High

Description of Project: Replace 2013 Ford E-450 Horton Ambulance with an ambulance that will continue to meet the needs of the Department and community. The last E-450 Ford Horton ambulance had a new chassis installed. The new ambulance requested for FY2022 will be of new construction and heavy duty design that will allow for an extended year of front line service. Currently we are restricted by the physical dimensions of the current fire station bays. With the recent approval of a new Center Fire Station, we are now able to plan for and design an ambulance that will better meet the operational needs of the Department and the community.

Justification/Benefit: The ambulance is the most frequently used emergency resources in the Department. They are driven by a variety of people under extreme conditions on a daily basis. Ambulances are prone to mechanical failure and require extensive maintenance as they age. Recent ambulances have reached approximately 75,000 to 80,000 miles in their first 2 years of use as the Town's primary response ambulance. The new ambulance design will extend the front line service life of the vehicle by one year. New ambulance regulations will be met through appropriate planning and design specification

Impact if not completed: Costly repairs and the potential of break downs during critical emergency responses as these vehicles age. Most service work is covered under factory warranty at no cost the Department when the primary and secondary ambulances are in service. The backup ambulance, the oldest in the fleet, is only placed in service during mass casualty incidents or when one of the primary ambulances require maintenance or repair.

Timeframe: FY22 FY25

Replace. Freq:
3 Years

Stakeholders: Town Residents / Firefighters / Ambulance Patients

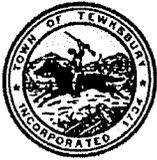
Operating Budget Impact: Reduced maintenance and increased vehicle reliability in a vehicle critical to the Department.

Funding Source:

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$250,000.00	\$0.00	\$0.00	\$250,000.00	\$0.00	\$500,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$250,000.00	\$0.00	\$0.00	\$250,000.00	\$0.00	\$500,000.00

Basis of Cost Projection: Current Pricing of Ambulances



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Rescue Truck

Date: 1/18/2021

Project ID Number: _____

Revision Date: _____

Submitted By: Joseph W. Kearns, Fire Chief

Department: Fire

First Year Submission: 2017

Priority: Medium

Description of Project: Replace the 2000 International 4900 Rescue Truck with a smaller, more versatile vehicle to better serve the needs of the Department and the community. The new rescue truck will be reduced in size and will be designed to safely store and transport rescue equipment the Department currently utilizes.

Justification/Benefit: The current vehicle has an outdated hydraulic rescue tool system that is not capable of being cost effectively upgraded. The vehicle was built to carry a portable breathing air cascade system. This system has been removed from service due to regulation changes in the mobile filling of high pressure cylinders and the availability of a regional mobile filling station resource provided by the Tyngsboro Fire Department. The light tower on the rescue truck is not functional due to mechanical issues and the lack of availability of replacement parts. The towing receiver is currently not usable due to corrosion. The new rescue truck design will provide compartment and storage space for current and future hazardous material and rescue related equipment.

Impact if not completed: The Fire Department will continue to operate our current rescue truck. We will continue to maintain and stock the truck with the tools and equipment it is capable of carrying. Current sub-frame corrosion will continue to be monitored and will be addressed as needed for continued safe operation

Timeframe: FY 2022

Replace. Freq:

20 Years

Stakeholders: Town Residents / Firefighters / Hotels / State Hospital Complex / Condominiums & Apartment Complexes

Operating Budget Impact: Reduced maintenance costs, improved flexibility in Departmental function between stations.

Funding Source: Stabilization Fund

Capital Funding Request

Table with 7 columns: Fiscal Year, 2022, 2023, 2024, 2025, 2026, Totals. Rows include Site Acquisition, Design/Engineer, Construction, Equipment, Contingency, and Totals.

Basis of Cost Projection: Current cost of a Rescue Truck



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: North Fire Station renovations

Date: 1/18/2021

Project ID Number: _____

Revision Date: _____

Submitted By: Joseph W. Kearns, Fire Chief

Department: Fire

First Year Submission: 2017

Priority: Medium

Description of Project: A renovation of the first floor of the North Fire Station and the addition of a second floor above the living quarters. The apparatus bays and footprint of the building will not change. The second floor addition will provide for safer and more functional use of the station by the firefighters assigned there.

Justification/Benefit: The North Fire Station was put into service in 1976 and is currently 45 years old. It meets the current needs of the Fire Department from a size and location point of view; however, it does not meet the current building and fire codes nor does it comply with NFPA standards for firefighter health and safety. A renovation and addition will provide the Department with a facility that meets all current building, life safety, and occupational health codes. The facility lacks adequate storage which reduces the functionality and use of the apparatus bays. A facility that provides adequate training, living, community accessibility, and equipment and storage space supports our firefighting personnel and assists the Department in the delivery of excellent services to our community. A renovation of the station utilizes existing Town owned property and will provide for ADA compliance, a public restroom, male and female firefighter showers and accommodations. It will be designed to meet current NFPA Standards for firefighter health and safety and will provide modern life safety features.

Impact if not completed: The Fire Department will continue to operate in a building that does not meet safety and building codes. The Town will have to invest in a new roof and heating system in the next several years. The firefighters will continue to operate in the limited space the station provides.

Timeframe: FY 2023

Replace. Freq:
50 Years

Stakeholders: Town Residents / Firefighters / Hotels / State Hospital Complex / Condominiums & Apartment Complexes

Operating Budget Impact: Reduced maintenance costs, improved flexibility in Departmental function between stations.

Funding Source: Stabilization fund or Free Cash

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$150,000.00	\$0.00	\$0.00	\$0.00	\$150,000.00
Construction	\$0.00	\$1,100,000.00	\$0.00	\$0.00	\$0.00	\$1,100,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$1,250,000.00	\$0.00	\$0.00	\$0.00	\$1,250,000.00

Basis of Cost Projection: Director of Facilities Estimate



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: New Fire engine

Date: 1/18/21

Project ID Number: _____

Revision Date: _____

Submitted By: Chief Joseph Kearns

Department: Fire

First Year Submission: 2021

Priority: Medium

Description of Project: Replace the Department's 2008 Pierce Velocity Protector fire engine with a new fire engine. New vehicle specification will also include a water supply, centrifugal fire pump, and supply and fire attack hose for independent firefighting capabilities. The new fire Engine will be placed at a station to be the primary response truck in that district. The new fire engine will be NFPA 1901 Standard compliant for automotive fire apparatus and will be outfitted with new hose and firefighting equipment.

Justification/Benefit: Our Engine 4 will be fifteen years old in 2023. Engine 4 was purchased from a town in Texas to address an immediate need in 2013. This pump was an in service piece when we bought it. Two Tewksbury E-One Hush fire engines were unexpectedly taken out of service in 2013 due to corrosion and frame rail issues. A third 1994 E-One Hush was taken out of service in 2014 due to mechanical issues that were beyond feasible repair. So the decision to buy this used piece of apparatus was made. It is a generally accepted fact that fire apparatus, like all types of mechanical devices, have a finite life. How long that is depends on many factors including cost of maintenance, operational function, availability of parts, downtime, and quality of the manufacturer to name a few. Engine 4 is a backup engine; however, it is put in service as and depended upon as a frontline engine during fires and other emergencies where off duty members are called back for apparatus and station coverage. It must also be placed in service to cover apparatus being taken out of service for testing, preventative maintenance, or repairs. Some of these repairs can take up to a month. On rare occasions apparatus can be out for repair for over one month. On average, our backup engine is placed in frontline service about 25% of the time. A key element in assessing apparatus life span is fire fighter safety; older apparatus do not meet the same safety standards that newer apparatus must meet. This pump was one of the first to be required to meet emissions standards with regeneration of the diesel engine. With this being first generation we have encored numerous repair costs to address these requirements.

Impact if not completed: The Department will continue to operate and maintain this high maintenance apparatus to the best of our ability. Due to its age, this vehicle needs continued maintenance which results in high cost both to repair and locate and install parts which are not always readily accessible.

Timeframe: FY 23

Replace. Freq:
20 Years

Stakeholders: Town Residents / Firefighters / Hotels / State Hospital Complex / Condominiums & Apartment Complexes

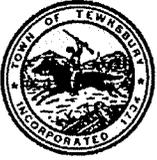
Operating Budget Impact: Reduced maintenance cost and reduction in likelihood of constant repairs for an apparatus that will continue to increase.

Funding Source:

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$700,000.00	\$0.00	\$0.00	\$0.00	\$700,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$700,000.00	\$0.00	\$0.00	\$0.00	\$700,000.00

Basis of Cost Projection: Current Pricing Of Engines



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: South Station Kitchen Renovations

Date: 1/18/2021

Project ID Number: _____

Revision Date: _____

Submitted By: Chief Joseph W. Kearns

Department: Fire

First Year Submission: 2017

Priority: Medium

Description of Project: A renovation of the kitchen cabinets and appliances is needed the South Fire Station. The physical area and structure of the building will not change.

Justification/Benefit: The South Fire Station was put into service in 2001 and is currently 19 years old. It meets the current needs of the Fire Department from a size and location point of view and is overall good condition. At the time of construction, several cost saving measures were taken to stay within the allotted budget for the project. One of those cost saving measures was the kitchen cabinetry, fixtures, and appliances. The plumbing fixtures have been replaced as needed; however, the cabinet doors and base structures are showing severe wear with the 24hour use of the building. The appliances were contractor grade purchases and are currently functional. Although the building's fire alarm panel may need modification or upgrade within the next few years, this project will not require upgrades of the fire protection provided it stays within the scope of the proposed work

Impact if not completed: The firefighters will continue to use the cabinets and appliances that are in place. The Department will continue to make repairs as needed to maximize life of these original building components

Timeframe: FY24

Replace. Freq:

25 Years

Stakeholders: Town Residents / Firefighters / Hotels / State Hospital Complex / Condominiums & Apartment Complexes.

Operating Budget Impact: Reduced maintenance costs, improved functionality.

Funding Source:

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$50,000.00	\$0.00	\$0.00	\$50,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$50,000.00	\$0.00	\$0.00	\$50,000.00

Basis of Cost Projection: Based Upon Director of Facilities Estimate

DPW General Fund

Transportation
5-Year Capital Cost

Budget Cost Elements	FY22	FY23	FY24	FY25	FY26	TOTAL
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Eng.	\$130,000.00	\$130,000.00	\$165,000.00	\$200,000.00	\$165,000.00	\$790,000.00
Construction	\$1,665,000.00	\$1,645,000.00	\$1,510,000.00	\$1,710,000.00	\$1,510,000.00	\$8,040,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL	\$1,795,000.00	\$1,775,000.00	\$1,675,000.00	\$1,910,000.00	\$1,675,000.00	\$8,830,000.00

Fiscal Year	Program	Location	Cost	Fund		
FY22	Cal 2021-2022					
Road Preventative Maintenance		Various locations based on PCI Report		\$50,000.00 Chapter90	Chapter 90	\$925,000.00
Crack sealing		Heath Brook School neighborhoods off Shawsheen; Phase 2		\$150,000.00 Chapter90	Grants	\$620,000.00
Nova Chip vs. Micro seal				\$200,000.00	Gen Fund	\$250,000.00
						\$1,795,000.00
Reconstruction/Resurfacing						
Grind and Overlay		Various locations based on PCI Report: attachment "Streets to be Paved"		\$175,000.00 Chapter90		
Full-Depth Reconstruction		Various locations based on PCI Report: attachment "Streets to be Paved"		\$270,000.00 Chapter90		
				\$445,000.00		
Sidewalks/Complete Streets						
Complete Streets Construction		Fiske Street and Andover Street sidewalk	Dependent on MADOT grant award	\$400,000.00 Complete Streets Grant		
Sidewalk Construction		Main Street - Colonial Drive to Victor Drive	Dependent on MADOT grant award	\$220,000.00 Housing Choice Grant		
Sidewalk Construction		Whipple Road Phase 1		\$250,000.00 General Fund		
				\$870,000.00		
Improvement Projects						
Intersection Improvements		Shawsheen Street at Foster Road - Intersection Design		\$150,000.00 Chapter 90		
				\$150,000.00		
Project Development						
Complete Streets Project Design		Whipple Road and Chandler Street Intersection		\$65,000.00 Chapter90		
Sidewalk Design		Livingston St: East Street to Pond View Lane - Phase I & II		\$65,000.00 Chapter90		
				\$130,000.00		
			Total Cost FY22	\$1,795,000.00		
FY23	Cal 2022-2023					
Road Preventative Maintenance		Various locations based on PCI Report		\$50,000.00 Chapter90	Chapter 90	\$1,125,000.00
Crack sealing		Various locations based on PCI Report: attachment "Streets to be Paved"		\$300,000.00 Chapter90	Grants	\$400,000.00
Nova Chip				\$350,000.00	Gen Fund	\$250,000.00
						\$1,775,000.00
Reconstruction/Resurfacing						
Grind and Overlay		Various locations based on PCI Report: attachment "Streets to be Paved"		\$175,000.00 Chapter90		
Full-Depth Reconstruction		Various locations based on PCI Report: attachment "Streets to be Paved"		\$270,000.00 Chapter90		
				\$445,000.00		
Sidewalks/Complete Streets						
Complete Streets Construction		Whipple Road and Chandler Street Intersection	Dependent on MADOT grant award	\$400,000.00 Complete Streets Grant		
Sidewalk Construction		Whipple Road Phase 2		\$250,000.00 General Fund		
				\$650,000.00		
Improvement Projects						
Intersection Improvements		Main Street at Pleasant Street and East Street	Dependent on MADOT grant award	\$200,000.00 Chapter90		
				\$200,000.00		
Project Development						
Complete Streets Project Design		Upper North Street and Colonial Drive		\$65,000.00 Chapter90		
Sidewalk Design		Lower Chandler: Whipple Road to Indian Hill Road		\$65,000.00 Chapter90		
				\$130,000.00		
			Total Cost FY23	\$1,775,000.00		
FY24	Cal 2023-2024					
Road Preventative Maintenance		Various locations based on PCI Report		\$50,000.00 Chapter90	Chapter 90	\$1,025,000.00
Crack sealing		Various locations based on PCI Report: attachment "Streets to be Paved"		\$300,000.00 Chapter90	Grants	\$400,000.00
Nova Chip				\$350,000.00	Gen Fund	\$250,000.00
						\$1,775,000.00
Reconstruction/Resurfacing						
Grind and Overlay		Various locations based on PCI Report: attachment "Streets to be Paved"		\$175,000.00 Chapter90		
Full-Depth Reconstruction		Various locations based on PCI Report: attachment "Streets to be Paved"		\$270,000.00 Chapter90		
				\$445,000.00		
Sidewalks/Complete Streets						
Complete Streets Construction		Upper North Street and Colonial Drive	Dependent on MADOT grant award	\$400,000.00 Complete Streets Grant		
Sidewalk Construction		Livingston St: East Street to Pond View Lane - Phase I		\$250,000.00 General Fund		
				\$650,000.00		
Improvement Projects						
Signal Improvements		North Street at Andover Street		\$65,000.00 Chapter90		
				\$65,000.00		
Project Development						
Complete Streets Project Design		Trull Road Sidewalk		\$65,000.00 Chapter90		
Sidewalk Design		North Street - Frasca Field to I-495 - Phase I & II		\$100,000.00 Chapter90		
				\$165,000.00		
			Total Cost FY24	\$1,675,000.00		

Fiscal Year Program	Location	Cost	Fund		
FY25 Cal 2024-2025 Road Preventative Maintenance Crack sealing Nova Chip	Various locations based on PCI Report	\$50,000.00	Chapter90	Chapter 90	\$1,260,000.00
	Various locations based on PCI Report: attachment "Streets to be Paved"	\$300,000.00	Chapter90	Grants	\$400,000.00
		\$350,000.00		Gen Fund	\$250,000.00
					\$1,910,000.00
Reconstruction/Resurfacing Grind and Overlay Full-Depth Reconstruction	Various locations based on PCI Report: attachment "Streets to be Paved"	\$175,000.00	Chapter90		
	Various locations based on PCI Report: attachment "Streets to be Paved"	\$270,000.00	Chapter90		
		\$445,000.00			
Sidewalks/Complete Streets Complete Streets Construction Sidewalk Construction	Trull Road Sidewalk	\$400,000.00	Complete Streets Grant		
	Livingston St: East Street to Pond View Lane - Phase II	\$250,000.00	General Fund		
		\$650,000.00			
Improvement Projects Intersection Improvements Signal Improvements	Shawsheen St at Foster Rd - Non-Part. Agreement	\$200,000.00	Chapter 90		
	Andover Street at Ames Pond Drive	\$65,000.00	Chapter90		
		\$265,000.00			
Project Development Complete Streets Project Design Sidewalk Design	Whipple Road at Pleasant Street Intersection	\$100,000.00	Chapter90		
	East Street - Livingston Street to Leston Street	\$100,000.00	Chapter90		
		\$200,000.00			
	Total Cost FY25	\$1,910,000.00			
FY26 Cal 2025-2026 Road Preventative Maintenance Crack sealing Nova Chip	Various locations based on PCI Report	\$50,000.00	Chapter90	Chapter 90	\$1,025,000.00
	Various locations based on PCI Report: attachment "Streets to be Paved"	\$300,000.00	Chapter90	Grants	\$400,000.00
		\$350,000.00		Gen Fund	\$250,000.00
					\$1,675,000.00
Reconstruction/Resurfacing Grind and Overlay Full-Depth Reconstruction	Various locations based on PCI Report: attachment "Streets to be Paved"	\$175,000.00	Chapter90		
	Various locations based on PCI Report: attachment "Streets to be Paved"	\$270,000.00	Chapter90		
		\$445,000.00			
Sidewalks/Complete Streets Complete Streets Construction Sidewalk Construction	Whipple Road at Pleasant Street Intersection	\$400,000.00	Complete Streets Grant		
	Lower Chandler: Whipple Road to Indian Ridge	\$250,000.00	General Fund		
		\$650,000.00			
Improvement Projects Signal Improvements	Locations TBD	\$65,000.00	Chapter90		
		\$65,000.00			
Project Development Complete Streets Project Design Sidewalk Design	Andover Street at Highwood Drive intersection Improvements	\$100,000.00	Chapter90		
	TBD	\$65,000.00	Chapter90		
		\$165,000.00			
	Total Cost FY26	\$1,675,000.00			



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects

Project Name: Transportation: Pavement Management Date: 01/11/2021
 Project ID Number: _____ Revision Date: _____
 Submitted By: Brian Gilbert, Director DPW Department: Public Works Dept. Priority: _____
 First Year Submission: Phone #: 978-640-4440 Email: bgilbert@tewksbury-ma.gov

Description of Project:

This request proposes the funding of an annual Transportation/Street Improvement Program including: preventative maintenance, resurfacing and reconstruction, and sidewalks. As part of this program the Town has established a Complete Streets Policy, which has been evaluated and approved by the Massachusetts Department of Transportation (MADOT). Acceptance of the policy by MADOT enables the Town to be eligible for additional State aid under its Complete Streets program. The Town has established a prioritization plan outlining the roadway improvements projects that will provide safe and accessible options for all modes of travel including walking, biking, transit, and vehicles. Complete Streets project funding has been included in this request, as funding allows.

In FY22 the Town proposes the following roadway treatments: crack-seal of approximately 5.0 miles of roadway and resurfacing of various roads based on priorities from the pavement management inventory. Resurfacing projects will include expenses for permitting, catch basin/manhole repair, drain flushing and repair, installation of new drains and shoulder/driveway berm installation. Funding for sidewalk installations is also included in this request. Locations and specifications have been established as part of a sidewalk plan, funded in FY18. In FY22 various streets will be resurfaced using Chapter 90 funds based on out five-year paving schedule. Sidewalk construction is scheduled for Phase 1 of Whipple Road using the general fund. Sidewalk construction on Main Street from Colonial Drive to Victor Drive is planned, contingent upon receipt of a Housing Choice Capital Grant. Sidewalk construction on Fiske Street and Andover Street is planned, contingent upon receipt of a Complete Streets Grant.

Justification/Benefit:

The lack of additional Town funding for a regular street improvement program over many years has resulted in the deterioration of Tewksbury's roads. In the calendar years 2004-2010, the sewer installation project injected approximately \$10,560,000 to improve many of the Town roads. However, there remained numerous miles of roads in disrepair and those in need of preventative maintenance. At this time roads treated during the sewer project are showing signs of distress. The large number of roads currently in need of preventative maintenance will begin to degrade into poor condition if regular investment and preventative maintenance practices are withheld. Roads more recently treated should be maintained through crack-sealing techniques to gain the greatest return on investment while avoiding higher costs for repair. Continued funding through State programs and Town accounts will increase the quality and safety of Tewksbury's roads as well as provide accommodations for various modes of transportation. Preventative measures will prolong road life-cycles while elevating the quality of roads without having to rehabilitate at higher unit costs.

Impact if not completed:

The life cycle of roads will be reduced, road surface quality will diminish, operating and resurfacing costs increase, safety is diminished, while damage to private property escalates.

Timeframe:

Projects are included on the attached spreadsheet FY22-FY26.

Replacement Freq.: 5-25 Years

Stakeholders:

Taxpayers, the motoring public, residents near the area that utilize these roads the most, and Highway/Forestry Division

Operating Budget Impact:

Engineering Division, Highway/Forestry Division and Water & Sewer Division personnel time will be required to support the projects to be completed.

Cost Analysis:

Funding Source: ●Levy ○ CPA ○ Revolving ● State Aid ○ Water ○ Sewer ○ Recreation ○ Private ○ Other

Capital Funding Request

	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$1,515,000.00	\$1,445,000.00	\$1,445,000.00	\$1,445,000.00	\$1,445,000.00	\$7,295,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$1,515,000.00	\$1,445,000.00	\$1,445,000.00	\$1,445,000.00	\$1,445,000.00	\$7,295,000.00

Basis of Cost Projection: Cost project based on current bid pricing.



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects

Project Name: Transportation: Project Development and Design Date: 01/11/2021

Project ID Number: Revision Date:

Submitted By: Brian Gilbert, Director DPW Department: Public Works Dept. Priority:

First Year Submission: Phone #: 978-640-4440 Email: bgilbert@tewksbury-ma.gov

Description of Project:

This project will consist of developing design plans and specifications for sidewalk installation and a Complete Streets project. In most instances project construction will be scheduled for the following fiscal year. Plans for Complete Streets projects must be developed by the Town; construction funding is awarded through MADOT's grant program.

Justification/Benefit:

The Town must provide engineering design specifications for certain construction projects to ensure engineering and construction standards are met. In addition, various metrics are applied to ensure a plan will work as designed given site criteria. The Town has developed a prioritization list of fifteen (15) projects that meet the funding criteria of the Complete Streets program. The Town intends to apply for construction funding in FY23 through the Complete Streets grant process for improvements to the Whipple Road and Chandler Street intersection. Upon notice of award the Town will commit the Chapter 90 funds for the design efforts. In addition sidewalk design along Livingston Street from East Street to Pond View Lane will be completed.

Impact if not completed:

Not promoting safe accessible multi-modal transportation options, including walking, biking, transit and vehicular, for all ages and abilities. Lack of sidewalks may put pedestrians at risk.

Timeframe:

Generally, project development will be completed in the year preceding project construction.

Replacement Freq.: 25 Years

Stakeholders:

All traveling public and adjacent residents along the corridors

Operating Budget Impact:

Increased cost for sidewalk maintenance.

Cost Analysis:

Funding Source: Levy CPA Revolving State Aid Water Sewer Recreation Private Other

Capital Funding Request

Table with 7 columns (2022, 2023, 2024, 2025, 2026, Totals) and 7 rows (Site Acquisition, Design/Engineer, Construction, Equipment, Contingency, Totals)

Basis of Cost Projection: Engineering proposals



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects

Project Name: Transportation: Traffic Improvements

Date: 01/12/2021

Project ID Number: _____

Revision Date: _____

Submitted By: Brian Gilbert, Director of Public Works Department: Public Works Priority: _____

First Year Submission: Phone #: 978-640-4440 Email: bgilbert@tewbury-ma.gov

Description of Project:

Projects under this category are one-time projects intended to improve aspects of design and/or function of roadway infrastructure or enhancements that will improve traffic safety and preservation of public and private property. The projects scheduled for FY22 include the design of improvements to the intersection of Shawsheen Street, Foster Road, Patten Road, and Beech Street associated with the proposed MassDOT TIP project.

Justification/Benefit:

The Shawsheen Street, Foster Road, Patten Road, and Beech Street intersection improvement project will improve traffic safety and add pedestrian and bicycle facilities at a major intersection in Tewksbury. The funding for construction will be sought through the MassDOT Transportation Improvement Program (TIP).

Impact if not completed:

The Shawsheen Street, Foster Road, Patten Road, and Beech Street intersection will still experience safety issues due to poor geometry.

Timeframe:

Replacement Freq.: 25 - 50 Years

Design of the Shawsheen Street, Foster Road, Patten Road, and Beech Street intersection improvements are planned for FY22.

Stakeholders:

All motorists, pedestrian, cyclists and adjacent residents.

Operating Budget Impact:

The potential installation of a traffic signal at the Shawsheen Street, Foster Road, Patten Road, and Beech Street intersection will increase energy costs.

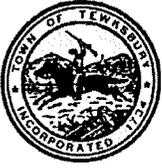
Cost Analysis:

Funding Source: Levy CPA Revolving State Aid Water Sewer Recreation Private Other

Capital Funding Request

	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$150,000.00	\$200,000.00	\$65,000.00	\$265,000.00	\$65,000.00	\$745,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$150,000.00	\$200,000.00	\$65,000.00	\$265,000.00	\$65,000.00	\$745,000.00

Basis of Cost Projection: Engineer's estimate



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects

Project Name: Department of Public Works Building Renovation Date: 1/15/2021

Project ID Number: Revision Date:

Submitted By: Brian Gilbert, Supt DPW Department: Public Works Dept Priority:

First Year Submission: Phone #: 978-640-4440 Email: bgilbert@teewksbury-ma.gov

Description of Project:

This project seeks to build a new combined DPW and School Maintenance Facility at the current site of the DPW on Whipple Road. The original DPW facility was built in 1962 and was 8,400 square feet. An addition was added in 1980 increasing the footprint to 25,900 total square feet. These structures are still being utilized by the DPW Highway, Forestry, Water, Sewer, Fleet Maintenance, Engineering and Administration Divisions for operations, equipment and vehicle storage, office and storage space. The plan is to demolish the existing facility and build a new 49,500 square foot facility on the current site that will house DPW and School staff.

Justification/Benefit:

The DPW facility is (50) years old. An addition was constructed (35) years ago to address the growing needs of the Department for space and storage. However, the facility does not meet the current space needs and functioning of the Department today, resulting in concerns for employee safety and health, care and damage to vehicles and equipment, work efficiencies, storage of tools and supplies and security of the facility. The construction of a new facility will allow for proper storage of equipment, vehicles and materials, improved office space and employee work areas, locker rooms, meeting areas, state of the art Fleet Maintenance garage, fueling area and a vehicle wash bay for all Town department. A new facility also addresses the need for School Maintenance staff to have shops and storage space from which to operate.

Impact if not completed:

The building doesn't serve the space, safety and efficiency needs of the DPW's operations, while the physical structure will continue to be susceptible to deterioration, water infiltration and the funding of sunken costs. The School Facility Maintenance operation has had to recently vacate its operational space to make way for the elementary school development on the Ryan School campus without a permanent solution to house their operation. Safety of the staff will continue to be an issue as space is limited and environmental systems need updating. Higher building costs due to the lack of current building system technologies will continue wasteful spending on energy and repairs. Inefficient work processes and procedures will continue, which limit the work schedules of an under-sized staff resource.

Timeframe:

Replace. Freq: 50 Years

Funding for the new building will be assessed as the facility's program and design are developed. A cost per square estimate from other newly constructed DPW facilities (Weston and Sampson) had been used as an initial project budget.. Engineering and Design for the new construction is scheduled through the winter of 2020-21; with construction beginning summer of 2021.

Stakeholders:

Town staff working in the current facility, School Maintenance staff; visitors doing business; Police, Fire and Park departments

Operating Budget Impact:

Potential cost savings in possible energy reduction; reduced incidence of equipment damage and repair; operational building repair, costs associated with employee injury.

Cost Analysis:

Funding Source: Levy CPA Revolving State Aid Water Sewer Recreation Private Other

Capital Funding Request

	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$15,000,000.00	\$15,000,000.00	\$0.00	\$0.00	\$0.00	\$30,000,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$15,000,000.00	\$15,000,000.00	\$0.00	\$0.00	\$0.00	\$30,000,000.00

Basis of Cost Projection: Consultant's Cost Estimate(s)

Fleet/Equipment
5-year Project Cost Estimates

Budget Cost Elements	2022	2023	2024	2025	2026	TOTAL
Site Acquisition						
Design/Eng.						
Construction						
Equipment	\$685,000.00	\$620,000.00	\$415,000.00	\$425,000.00	\$410,000.00	\$2,555,000.00

Fiscal Year	Veh #	Year	Description Of Purchase	Department	Cost		Comments
					GenFund	Enterprise	
FY2022							
	26	2006	Replace F-550 w/plow package	Highway	\$100,000.00		Replace w/Dump / Utility model
	62	1995	6 Wheel Dump w/plow package	Highway	\$220,000.00		Replace w/Same
			6-8 Yard sander (slide-in)	Snow	\$20,000.00		
	67	2014	Loader	Water/Highway	\$100,000.00	\$100,000.00	Replace w/Same (Water break support)
			Sub-total DPW		\$440,000.00		
	84	2011	Backhoe	Water/Sewer		\$145,000.00	Replace w/Same
			Sub-total Water/Sewer			\$245,000.00	
			Total FY22		\$685,000.00		
FY2023							
	55	1999	6-Wheel Dump w/plow package	Highway	\$225,000.00		Replace w/Same
		2000	6-8 Yard sander (slide-in)	Snow	\$20,000.00		Replace w/Same
					\$245,000.00		
		New	SnowBlower attachment for Loader	Snow	\$135,000.00		To be used at Ryan School
		New	Snow pusher blade plow	Snow	\$40,000.00		To be used at Ryan School
					\$175,000.00		
			Sub-total DPW / Schools		\$420,000.00		
	50	1996	6-Wheel Dump	Water/Sewer		\$200,000.00	Replace w/Same
			Sub-total Water/Sewer			\$200,000.00	
			Total FY23		\$620,000.00		
FY2024							
	56	1997	10-Wheel Dump w/plow package	Highway/Snow	\$240,000.00		Replace w/Same
			12 Yard sander (slide-in)	Snow	\$25,000.00		Replace w/Same
	60	2006	F-550 Dump w/snow Pkg and wing-plow	Highway	\$100,000.00		Replace w/Same
	608	2002	Asphalt Curb Machine	Highway	\$8,000.00		Replace w/Same
		2006	DPW Engineering / Vehicle Pool SUV	Eng / General	\$21,000.00	\$21,000.00	Replace w/Same
			Sub-total DPW		\$394,000.00		
			Sub-total Water/Sewer			\$21,000.00	
			Total FY24		\$415,000.00		
FY2025							
	6	2006	F-350 Pickup w/Plow Package	Highway	\$100,000.00		Replace w/Same
	56	1997	F-550 Dump w/snow Pkg and wing-plow	Highway/Snow	\$250,000.00		Replace w/Same
			6-8 Yard sander (slide-in)	Snow	\$20,000.00		Replace w/Same
			Sub-total DPW		\$370,000.00		
	16	2013	Water Treatment Plant Ford F-150	WTP		\$55,000.00	Replace w/Same
			Sub-total Water/Sewer			\$55,000.00	
			Total FY25		\$425,000.00		
FY2026							
	53	2005	F-550 Dump w/Snow package	Highway	\$260,000.00		Replace w/Same
		1995	6-8 Yard sander (slide-in)	Snow	\$20,000.00		Replace w/Same
	621	2009	3 Ton Asphalt Hotbox	Highway	\$25,000.00	\$25,000.00	Replace w/Same
	615	2004	Variable Message Board		\$12,500.00	\$12,500.00	Replace w/Same
	616	2004	Variable Message Board		\$12,500.00	\$12,500.00	Replace w/Same
			Sub-total DPW		\$330,000.00		
	605	1999	Asphalt Roller	Water/Sewer		\$12,000.00	Replace w/Same
	801	1999	Compressor	Water/Sewer		\$18,000.00	Replace w/Same
			Sub-total Water/Sewer			\$80,000.00	
			Total FY26		\$410,000.00		



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects

Project Name: Equipment Replacement Program

Date: 1/11/2021

Project ID Number: _____

Revision Date: _____

Submitted By: Brian Gilbert, Director of Public Works Department: Public Works Dept Priority: _____

First Year Submission: Phone #: _____ Email: _____

Description of Project:

The Department of Public Works has an inventory of (110) pieces of DPW/Utility equipment, not inclusive of all smaller motorized equipment and attachments. The current replacement value of all rolling stock and specialized equipment is approximately \$5 million+. Each piece of equipment is inventoried with replacement intervals vary from 5-25 years which are based on recommendations by the American Public Works Association member organizations.

The selection process of vehicles to be replaced begins with the proposed replacement date. Then each vehicle is assessed as to its remaining useful life, mechanical condition and work requirements. Lastly, each piece of equipment is prioritized for replacement and/or modification.

In FY22 the DPW requests General Fund replacements of the following: replacement of Truck #26 (2006 Ford F-550 Truck); replacement of Truck #62 (1995 Ford F-700 Dump Truck) and replacement of Loader #67 (2014 Volvo Loader). Also split between the water and sewer enterprises, the DPW requests the replacement of Backhoe #84 (2011 John Deere Backhoe).

Justification/Benefit:

The DPW's systematic replacement program defines what equipment is expected to be replaced during the next five years, with the intent of preventing any unexpected emergency purchases, lockout-tagout conditions due to safety concerns or loss of service. Annual updates are conducted by the Road Machinery Division and reviewed by the Division's Superintendent and Department's Director.

Impact if not completed:

The lack of an on-going replacement program and schedule will result in a jumbled inventory and the haphazard replacement of machinery. This could lead to a fleet ineffective in meeting the needs of the work program; budgetary problems if a piece of machinery had to be replaced in an emergency; and personnel safety issues if the machinery was operated beyond its reasonable life. Repair costs will rise due to the extent and scope of repairs for older equipment. Staff time to repair other stakeholder department's vehicles will see delays and increased costs for out-sourcing. Tasks/programs may go unaddressed if equipment fails to operate such as Street-sweeping, drain repair, sidewalk plowing etc.

Timeframe:

This is an on-going capital request

Replace. Freq:

5-25 Years

Stakeholders:

DPW operations staff and mechanics; Police, Fire, Park and Recreation Departments; Residents, businesses and Town government agencies dependent on DPW for snow removal, while some of the same Departments rely on DPW mechanics for repairs.

Operating Budget Impact:

Replacement of older vehicles will reduce repair costs within the operating budget. In addition, costs due to downtime, i.e. during snow plowing events will result in a reduction in overall storm event cost. Departments that depend on DPW mechanics to repair their vehicles will see delays in equipment being serviced and increased costs due to the postponement of those repairs. Outsourcing repair of all vehicles will increase costs across departments.

Cost Analysis:

Funding Source: Levy CPA Revolving State Aid Water Sewer Recreation Private Other

Capital Funding Request

	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$685,000.00	\$620,000.00	\$415,000.00	\$425,000.00	\$410,000.00	\$2,555,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$685,000.00	\$620,000.00	\$415,000.00	\$425,000.00	\$410,000.00	\$2,555,000.00

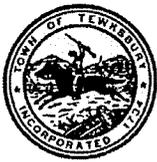
Basis of Cost Projection: Vendor Estimates

DPW Sewer Enterprise

Sewer
5-Year Capital Cost

Budget Cost Elements	2022	2023	2024	2025	2026	TOTAL
Site Acquisition	\$0	\$0	\$0	\$0.00	\$0.00	\$0
Design/Eng.	\$0.00	\$75,000.00	\$0.00	\$0.00	\$0.00	\$75,000.00
Construction	\$325,000.00	\$500,000.00	\$600,000.00	\$600,000.00	\$600,000.00	\$2,625,000.00
Equipment	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL	\$375,000.00	\$575,000.00	\$600,000.00	\$600,000.00	\$600,000.00	\$2,750,000.00

Fiscal Year	Program	Project Name	Work Description	Comments/Location	Cost
FY2022					
Cal yr. 2021-2022					
		Infiltration and Inflow (I/I) Control			
		Pipe Repair and Replace			\$0.00
		Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2021		\$50,000.00
		Pump Station Improvements			
			Install in-line grinders at two pump stations		\$275,000.00
			Purchase new pump for East Street Pump Station and rebuild existing pump for back-up		\$50,000.00
			Total Cost FY22		\$375,000.00
FY2023					
Cal yr. 2022-2023					
		Infiltration and Inflow (I/I) Control			
		Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY21-22 Camera/Investigation		\$300,000.00
			Chemical Grout Manholes Fiske Street, Sawyer Lane and Ames Pond sub-catchments		
		Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2022		\$50,000.00
		Pump Station Improvements			
		Design and Construction	Odor Mitigation at East Street Pump Station		\$150,000.00
			Facility Assessment of equipment and controls to ensure performance		\$75,000.00
			Total Cost FY23		\$575,000.00
FY2024					
Cal yr. 2023-2024					
		Infiltration and Inflow (I/I) Control			
		Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY22-23 Camera/Investigation		\$300,000.00
		Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2023		\$50,000.00
		Pump Station Improvements			
		Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment		\$250,000.00
			Total Cost FY24		\$600,000.00
FY2025					
Cal yr. 2024-2025					
		Infiltration and Inflow (I/I) Control			
		Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY23-24 Camera/Investigation		\$300,000.00
		Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2024		\$50,000.00
		Pump Station Improvements			
		Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment		\$250,000.00
			Total Cost FY25		\$600,000.00
FY2026					
Cal yr. 2025-2026					
		Infiltration and Inflow (I/I) Control			
		Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY23-24 Camera/Investigation		\$300,000.00
		Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2025		\$50,000.00
		Pump Station Improvements			
		Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment		\$250,000.00
			Total Cost FY26		\$600,000.00



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects

Project Name: Sewer Inflow and Infiltration Date: 01/11/2021

Project ID Number: _____ Revision Date: _____

Submitted By: Brian Gilbert, Director DPW Department: Public Works Dept. Priority: _____

First Year Submission: Phone #: 978-640-4440 Email: bgilbert@teewksbury-ma.gov

Description of Project:

This project is an on-going annual request for the rehabilitation of sewer manholes, pipe segments, and service connections that have been found to be sources of Inflow and Infiltration (I/I). Investigative tasks and projects are required by the DEP, who has recently mandated the submittal of a five-year I/I reduction plan and annual updating and reporting for all cities and towns permitted for discharge from a treatment facility. The Town submitted a 5-year plan (2018) which has been reviewed and approved by DEP. Initial investigations were conducted as early as 2012 and repairs made as late as 2017. Continued investigation of (14) primary sub-basins is required to specifically identify locations of structural failures, and target repairs.

Operating funds will be used for on-going investigations in preparation of subsequent capital funding requests for infrastructure repairs. These repairs are scheduled for the FY2022-2026 budgets; it is anticipated that older system pipe will have been identified for replacement/repair and more extensive repairs to manholes will be undertaken.

Justification/Benefit:

Infiltration and Inflow (I/I) is extraneous water entering the wastewater collection system. Infiltration refers to groundwater that enters the collection system through physical defects such as cracks in the pipes and manholes, or deteriorated joints. Inflow refers to extraneous flow entering the system through point sources, such as roof drains and sump pumps. The extraneous flow produced from I/I sources restricts the potential for new growth by reducing the available capacity in the system, and increases the cost of wastewater treatment operations. More importantly, the reduction in pipe capacity has the potential to cause Sanitary Sewer Overflows (SSOs) during periods of the year with high groundwater recharge and rain events. By removing I/I sources, the system's total capacity is increased, helping to minimize the potential for SSOs, and allowing for additional development. Flows originating from the East Street, Burnham Road, and Andover Street sub-basins have been estimated to operate with peak infiltration at 15%, 68%, 31% respectively, during the high groundwater season. I/I removal is also a requirement of the new discharge permit issued by EPA in September, 2019.

Impact if not completed:

Tewksbury's sewer enterprise operates under regulations promulgated by the Massachusetts Department of Environmental Protection (MassDEP). Each year, Tewksbury is required to investigate its system and make repairs. The investigation for I/I sources also allow staff to review the structural condition of the infrastructure to prioritize repairs. Although this is a requirement of the Town's discharge permit, it is a beneficial program designed to ensure a long range return on the investment made in the new sewer network. By finding and eliminating extraneous flow, the increased capacity of the new system is maintained over a greater number of years. Also, peak flows may surcharge sewer collection pipe capacity and contribute to residential sewer system backups, causing damage and cost to the Town.

Timeframe:

Manhole repairs will be contracted out for FY2022. Capital appropriations currently exist for incidental pipe repairs.

Replacement Freq.: 5-25 Years

Stakeholders:

All sewer customers, DPW Water & Sewer Division, MassDEP, EPA, Lowell Regional Wastewater Utility (LRWWU)

Operating Budget Impact:

Engineering Division and Water & Sewer Division personnel time will be required to support the projects to be completed.

Cost Analysis:

Funding Source: Levy CPA Revolving State Aid Water Sewer Recreation Private Other

Capital Funding Request

	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$350,000.00	\$350,000.00	\$350,000.00	\$350,000.00	\$350,000.00	\$1,750,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$350,000.00	\$350,000.00	\$350,000.00	\$350,000.00	\$350,000.00	\$1,750,000.00

Basis of Cost Projection: Engineer's Estimate



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects

Project Name: Sewer Pump Station Improvements _____

Date: 01/11/2021

Project ID Number: _____ **Revision Date:** _____

Submitted By: Brian Gilbert, Director DPW _____ **Department:** Public Works Dept. **Priority:** _____

First Year Submission: **Phone #:** 978-640-4440 **Email:** bgilbert@tewksbury-ma.gov

Description of Project:

This request is comprised of various projects to ensure the on-going operation of sewer pump stations. Types of projects in the category include upgrade to control panels and sensors, replacement of pumps and installation of new equipment to improve the performance of individual stations. The FY22 project list includes the installation of in-line mechanical grinders to breakdown solid materials in the waste stream before entering the pump station wet-wells at the Munro Circle and Regina S Drive pump stations. These installations were designed as part of the FY20 budget. The grinder installation project aims to reduce pump station malfunction due to material clogging the pumps and the necessity for emergency response operations to free clogged pumps. The purchase of a new pump for the East Street pump station and rebuilding one of the existing pumps as a back-up are also included in the request for the pump station improvements.

Justification/Benefit:

The town-wide sewer collection system utilizes forty six (46) sewer pump stations. Of these, the larger stations in the system have been equipped with grinders. However a number of smaller stations have continued problems with pump obstructions. The Munro Circle and Regina S Drive pump stations experience a high number of pump malfunction alarms which disable the pumps. The installation of the grinders will reduce the occurrence of clogs and emergency response, extend the life of the pump(s) and reduce the risk of sewer overflows. One of the pumps at the East Street failed in 2020 and is in need of replacement. Rebuilding the existing pump will provide a back-up pump should one of the other pumps experience a failure in the future.

Impact if not completed:

Alarms at these stations will continue to require the need for emergency response, many of which occurs after regular hours. Pump failures will reduce the expected life cycle of the pumps, which then would need to be replaced. Pump Station back-ups could occur if emergency response lags or during periods of high flow pumps are disabled.

Replacement Freq.: 25 Years

Timeframe:

Installation of the Munro Circle and Regina S Drive pump station grinders shall be completed during the FY22 budget year. The purchase of the new pump and rebuild of the old pump shall be completed during the FY22 budget year.

Stakeholders:

All sewer customers connected to the Munro Circle, Regina S Drive and East Street pump stations, DPW Water & Sewer Division

Operating Budget Impact:

Water & Sewer Division overtime should be reduced and cost for electrical power to operate the grinder.

Cost Analysis:

Funding Source: Levy CPA Revolving State Aid Water Sewer Recreation Private Other

Capital Funding Request

	2021	2022	2023	2024	2025	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$75,000.00	\$0.00	\$0.00	\$0.00	\$75,000.00
Construction	\$325,000.00	\$150,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$1,225,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$325,000.00	\$225,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$1,300,000.00

Basis of Cost Projection:

Engineer's estimate.

DPW Water Enterprise

Water
5-Year Capital Cost

Budget Cost Elements	2022	2023	2024	2025	2026	TOTAL
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Eng.	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$500,000.00
Construction	\$3,285,000.00	\$3,125,000.00	\$2,125,000.00	\$2,125,000.00	\$2,125,000.00	\$12,785,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL	\$3,385,000.00	\$3,225,000.00	\$2,225,000.00	\$2,225,000.00	\$2,225,000.00	\$13,285,000.00

Fiscal Year	Project Name	Work Description	Comments/Location	Cost
FY2022		Cal 2021-2022		
Water Distribution Improvements				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$125,000.00
	Water Distribution Upgrades	Engineer/Design Distribution Main upgrades FY2025: Beech Street neighborhood		\$100,000.00
	Water Distribution Upgrades	Construct Distribution Main upgrades based on FY2020 Design Bay State Road Neighborhood (Phase 2)	2" and 6" inch Water Main	\$3,000,000.00
Water Plant Improvement				
	Clean and Inspect all water Tanks (4)			\$60,000.00
	Astle Street Tank Renovations	Design: Catwalk repair/Carrier reorganization and painting Fall Town Meeting (Doesn't include Bonding for Carrier costs)		\$100,000.00
			Total Cost FY22	\$3,385,000.00
FY2023		Cal 2022-2023		
Water Distribution Improvements				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$125,000.00
	Water Distribution Upgrades	Engineer/Design Distribution Main upgrades FY2026: Cardigan/William G		\$100,000.00
	Water Distribution Upgrades	Construct Distribution Main upgrades based on FY2021 Design Whipple Rd (Phase 1) and Pringle St neighborhood		\$2,000,000.00
Water Plant Improvement				
	Astle Street Tank Renovations	Construction: Catwalk repair/Carrier reorganization and painting Fall Town Meeting (Doesn't include Bonding for Carrier costs)		\$1,000,000.00
			Total Cost FY23	\$3,225,000.00
FY2024		Cal 2023-2024		
Water Distribution Improvements				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$125,000.00
	Water Distribution Upgrades	Engineer/Design Distribution Main upgrades FY2027: Lower Shawsheen Street neighborhood at Foster Rd		\$100,000.00
	Water Distribution Upgrades	Construct Distribution Main upgrades based on FY2021 Design Whipple Rd (Phase 2) and Pringle St neighborhood		\$2,000,000.00
Water Plant Improvement				\$0.00
			Total Cost FY24	\$2,225,000.00
FY2025		Cal 2024-2025		
Water Distribution Improvements				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$125,000.00
	Water Distribution Upgrades	Engineer/Design Distribution Main upgrades FY2028: Astle Street and Pike Street		\$100,000.00
	Water Distribution Upgrades	Construct Distribution Main upgrades based on FY2022 Design Beech Street neighborhood		\$2,000,000.00
Water Plant Improvement				\$0.00
			Total Cost FY25	\$2,225,000.00
FY2026		Cal 2025-2026		
Water Distribution Improvements				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$125,000.00
	Water Distribution Upgrades	Engineer/Design Distribution Main upgrades FY2029: Pike Street and Victor Drive		\$100,000.00
	Water Distribution Upgrades	Construct Distribution Main upgrades based on FY2023 Design Cardigan/William G		\$2,000,000.00
Water Plant Improvement				\$0.00
			Total Cost FY26	\$2,225,000.00



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Hydrant Replacement Program Date: _____

Project ID Number: _____ Revision Date: _____

Submitted By: Brian Gilbert, Director of Public Works Department: Public Works

First Year Submission: _____ Priority: _____

Description of Project:

This annual program is intended to replace aging, malfunctioning, and/or out-of-service fire hydrants and to implement the standardization of hydrants throughout Town. The project began in 2006 and was reinstated in 2010 to address a large number of out-of-service hydrants. Since 2010 over 350 hydrants have been replaced.

In 2006, it had been estimated that 600 of the approximate 1,600 hydrants needed replacement. Funding has been approved at various Town Meetings at differing amounts beginning in FY2006. This year's request and continuing appropriations include water main extensions and installation of hydrants at the end of dead-end water mains to facilitate the full flushing/cleaning of the water main, to improve water quality at these locations.

Justification/Benefit:

A number of hydrants within the system have out-lived their useful life cycle and show signs of fatigue or, in some instances, may be difficult to operate. Upgrading existing hydrants that are inoperable and/or do not meet the Town-wide hydrant standard is important to fire protection efforts and ISO ratings. In addition, there are 11 different types of hydrants within the system, reducing operation consistency: some hydrants open by turning the valve to the left while others open to the right; parts are not interchangeable, requiring procurement of a variety of parts and distributors for repairs, which tie up a large amount of the operating budget in inventory.

A number of older developments have distribution mains without the inclusion of a hydrant at the end of the water main, which prevents the complete flushing of the water main. These sections of pipe need a hydrant installed so they can be periodically flushed to improve water quality.

Impact if not completed:

Malfunctioning or out-of-service hydrants delay firefighting operations. Leaking hydrants waste water, increasing the system's Unaccounted for Water (UAW); the inability to flush water mains via a hydrant leads to diminished water quality in some neighborhoods; stocking of parts for multiple hydrant types ties up capital and decreases operational efficiencies.

Timeframe:

Approximately 25 hydrants will be replaced or newly installed in FY2022

Replace. Freq.:

25 Years

Stakeholders:

Fire Department personnel, Tewksbury residents/businesses, and Department of Public Works Water Division staff

Operating Budget Impact:

Engineering Division and Water Division personnel time will be required to support the project.

Funding Source:

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$125,000.00	\$125,000.00	\$125,000.00	\$125,000.00	\$125,000.00	\$625,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$125,000.00	\$125,000.00	\$125,000.00	\$125,000.00	\$125,000.00	\$625,000.00

Basis of Cost Projection:

Cost Projection based on similar contract bid by the Town of Tewksbury in FY17.



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects

Project Name: Water Distribution System Improvements

Date: 01/11/2021

Project ID Number: _____

Revision Date: _____

Submitted By: Brian Gilbert, Director DPW Department: Department of Public Works Priority: _____

First Year Submission: Phone #: 978-640-4440

Email: bgilbert@tewbury-ma.gov

Description of Project:

The Department Public Works has developed a Water Distribution System Master Plan to guide an on-going effort to remove and replace old pipe varying in size and made from cast-iron and asbestos cement. Proposed replacements will seek to maximize fire flow capacity, reduce residency time in the pipe, while looping system reaches for redundancy, reducing the frequency of main breaks and improving water quality.

This request seeks to fund the second phase of the upgrade to the Town's water distribution system in South Tewksbury. The locations for water upgrades include Arnold Road, Bay State Road, Bond Street, Downing Road, Dudley Road, Green Street, Lake Street, Lakeview Avenue, Lawrence Street, Mystic Avenue, Parker Avenue, Saint Mary's Road, Warren Avenue, Wightman Road and Willow Street. In addition, the engineering and design for pipe replacement of the Beech Street neighborhood water main is to be completed in FY22.

Justification/Benefit:

The installation and replacement of existing water mains throughout the project work limits will enhance fire protection capabilities and improve water flows/pressures in these areas. In addition, replacement will remove a portion of the Town's deteriorating AC pipe and cast-iron pipe. Most importantly the replacement of deteriorating pipe will minimize the risk of water-breaks.

Impact if not completed:

Existing water pipe material is prone to breaking, requiring the roadway to be excavated and patched. Unexpected service outages will result from continued water main breaks. Poor water pressure and quality will continue as a result of the undersized two-inch cast iron pipes.

Timeframe:

Replacement Freq.: 50 Years

Construction will begin in FY22. Design and construction funding anticipates replacement of a total of 1.7 miles of new pipe.

Stakeholders:

Water customers (Town residents, commercial establishments, institutions, etc.), Tewksbury Fire Dept., Department of Public Works Water Division

Operating Budget Impact:

Replacement of asbestos cement (AC) and cast iron (CI) pipe with newer ductile iron (DI) pipe will result in fewer water main breaks for that section, and will reduce the associated costs with repairs and wasted water.

Cost Analysis:

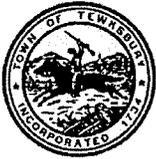
Funding Source: Levy CPA Revolving State Aid Water Sewer Recreation Private Other

Capital Funding Request

	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$500,000.00
Construction	\$3,000,000.00	\$2,000,000.00	\$2,000,000.00	\$2,000,000.00	\$2,000,000.00	\$11,000,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$3,100,000.00	\$2,100,000.00	\$2,100,000.00	\$2,100,000.00	\$2,100,000.00	\$11,500,000.00

Basis of Cost Projection:

Construction costs for the water distribution improvements are based on Engineer's cost estimates and construction project costs from previous years.



Town of Tewksbury FY2022- FY2026 Capital Improvements Projects

Project Name: Comprehensive Inspection and Cleaning of Water Tanks

Date: 1/19/21

Project ID Number: _____

Revision Date: _____

Submitted By: Brian Gilbert, Director DPW Department: Public Works Dept. Priority: _____

First Year Submission: Phone #: 978-640-4440

Email: bgilbert@tewksbury-ma.gov

Description of Project:

This project requests funding to clean and inspect the Town's water tank reservoirs (4) in conformance with Massachusetts Department of Environmental Protection's (DEP) recommended operating procedures. In a recent Sanitary Survey conducted by DEP, cleaning and inspection of the interior and inspection of exterior coatings was recommended every 3-5 years. The last date of inspection was in 2014.

Funding will be used to perform cleaning of the tank interiors and visual inspections of both interior and exterior coatings which protect the steel walls of the tank. In some instance drivers and/or remote devices may be used. Recommendations will be used to budget repairs as they are needed.

Cellphone Carrier equipment currently occupying the catwalk will be relocated to a corral, which the Carriers are responsible to fund and build at the roof knuckle on the tank. The use of the corral structure will free the catwalk, and the entire structure, to be inspected for repair, shoring and application of an exterior coating. The tank was built in 1969 and was last painted in 2000. It has been observed that partial failure of the exterior coatings located near the underbelly of the tank has occurred. Also, observations have been made that the catwalk sections flex and may need reinforcement to prevent failure. FY22 funding will be used to provide a full inspection of the structure, development of specifications for repairs and contract oversight, which will be appropriated separately as part of FY23 budget request

Justification/Benefit:

By removing sediment on a periodical basis (FY14) will avoid the need to perform expensive cleaning which involves power-washing and disposal of sediment that were performed on the Ameshill tanks, under Administrative Consent Order, in 2010. Light washing with fire hoses will remove any sediment and help to eliminate discoloration within the water system and maintain good water quality. This will bring all water storage tanks, process basins and intake structures back into a five year periodical schedule for performing necessary inspections and cleaning. Any deficiencies can be discovered and planned repairs can be made before a major failure can cause interruption in service or failure of the tank. This process will also insure that water quality will be maintained by removing any sediment.

Impact if not completed:

DEP may cite the Town with an Administrative Consent Order; steel tank walls could corrode and require extensive repair, water quality is diminished and repairs to the catwalk are safety concerns.

Timeframe:

Replace. Freq: 5 to 20 Years

This work will be scheduled during FY22 so funding for repairs can be requested as part of FY23 budget process

Stakeholders:

All water enterprise customers, DPW Water & Sewer Division and Water Treatment Plant, MassDEP, and EPA.

Operating Budget Impact:

Inspection and disinfection of the tank reservoirs needs to be completed every 5 years and does not have operational impacts. Painting the exterior and repairs to the Astle Street tank are capital expenses and do not have operational impacts.

Cost Analysis:

Funding Source: Levy CPA Revolving State Aid Water Sewer Recreation Private Other

Capital Funding Request

	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$100,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100,000.00
Construction	\$60,000.00	\$1,000,000.00	\$0.00	\$0.00	\$0.00	\$1,060,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$160,000.00	\$1,000,000.00	\$0.00	\$0.00	\$0.00	\$1,160,000.00

Basis of Cost Projection:

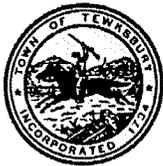
Cost Projection based on preliminary estimate.

DPW Stormwater Enterprise

**Drain-Stormwater
5-Year Project Cost Estimates**

Budget Cost Elements	FY22	FY23	FY24	FY25	FY26	TOTAL
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Eng.	\$35,000.00	\$35,000.00	\$210,000.00	\$55,000.00	\$55,000.00	\$390,000.00
Construction	\$515,000.00	\$450,000.00	\$300,000.00	\$550,000.00	\$600,000.00	\$2,415,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL	\$550,000.00	\$485,000.00	\$510,000.00	\$605,000.00	\$655,000.00	\$2,805,000.00

Fiscal Year	Program	Location	Cost	Fund
FY22	Cal 2021 - 2022			
Drains				
Culvert Replacement		Pringle Street Culvert	Construction	\$280,000.00 SW Enterprise
Catch Basin Installation		Old Boston Road connection to Main Street	Construction	\$35,000.00 MADOT
Pipe and structure repair		Cayuga Street	Construction	\$200,000.00 SW Enterprise
				\$515,000.00
Stormwater Compliance				
				\$0.00
Project Development and Permitting				
Drainage System Improvement Design		Woburn Street and Felker Street neighborhood	Engineering Services	\$35,000.00 SW Enterprise
				\$35,000.00
			Total Cost FY22	\$550,000.00
FY23	Cal 2022 - 2023			
Drains				
Culvert Replacement		Bayberry Lane Culvert	Construction	\$450,000.00 SW Enterprise
				\$450,000.00
Stormwater Compliance				
				\$0.00
Project Development and Permitting				
Drainage System Improvement Design		Tewmack Terrace - Wolcott Street to Arkansas Road	Engineering Services	\$35,000.00 SW Enterprise
				\$35,000.00
			Total Cost FY23	\$485,000.00
FY24	Cal 2023-2024			
Drains				
Drainage System Improvement		Woburn Street and Felker Street neighborhood	Construction	\$300,000.00 SW Enterprise
				\$300,000.00
Stormwater Compliance				
				\$0.00
Project Development and Permitting				
Drainage System Improvement Design		Van Buren Road drainage system	Engineering Services	\$55,000.00 SW Enterprise
Headwall and Culvert Repair Design		Upper Pinnacle Street headwall at Dunvegan Road	Engineering Services	\$80,000.00 SW Enterprise
Culvert Condition Assessment		Town wide	Engineering Services	\$75,000.00 SW Enterprise
				\$210,000.00
			Total Cost FY24	\$510,000.00
FY25	Cal 2024-2025			
Drains				
Drainage System Improvement		Tewmack Terrace - Wolcott Street to Arkansas Road	Construction	\$200,000.00 SW Enterprise
Headwall and Culvert Repair		Upper Pinnacle Street headwall at Dunvegan Road	Construction	\$350,000.00 SW Enterprise
				\$550,000.00
Stormwater Compliance				
				\$0.00
Project Development and Permitting				
Drain Improvement Design		Water Street at Adelaide Road	Engineering Services	\$55,000.00 SW Enterprise
				\$55,000.00
			Total Cost FY25	\$605,000.00
FY26	Cal 2025-2026			
Drains				
Drainage System Improvement		Water Street at Adelaide Road	Construction	\$200,000.00 SW Enterprise
Drainage System Improvement		Van Buren Road drainage system	Construction	\$200,000.00 SW Enterprise
Headwall and Culvert Repair		Andover Street at Hood Road	Construction	\$200,000.00 SW Enterprise
				\$600,000.00
Stormwater Compliance				
				\$0.00
Project Development and Permitting				
Drainage System Improvement Design		Location based on Stormwater Assessment and Resident concerns	Engineering Services	\$55,000.00 SW Enterprise
				\$55,000.00
			Total Cost FY26	\$655,000.00



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Drain/Stormwater System Management Date: _____

Project ID Number: _____ Revision Date: _____

Submitted By: Brian Gilbert, Director DPW Department: Public Works Department

First Year Submission: _____ Priority: _____

Description of Project:

This program is an annual request to improve the Town’s drainage system by repairing failed drainage structures and culverts, and the installation of new drainage facilities where existing drainage problems endanger public safety and/or private property. Staff plan, coordinate, and perform drainage improvements in conjunction with the Transportation Improvement Program to minimize disruptions and inconveniences and to reduce overall program expenditures. Additional drain repairs for incidental/minor upkeep have been included in the Town’s operational budget.

The capital construction projects identified for this program in Fiscal Year (FY22) include: replacement of the culverts on Pringle Street; installation of a drainage system on Cayuga Road; engineering of drainage system improvements to the neighborhood between Woburn Street and Felker Street in West Tewksbury.

Justification/Benefit:

Improving failed drainage infrastructure throughout Town eliminates a potential public health and safety hazard while efficiently and effectively managing the stormwater runoff for these areas in Town. In addition, the cost to maintain and repair infrastructure elements is substantially less compared to a complete rebuilding of a failed structure. These improvements help to maintain compliance with EPA’s MS4 NPDES Phase 2 Stormwater permit to the maximum extent possible with the budget available. Flooded roadways also impact private property and pose potential safety risks.

Impact if not completed:

Potential fines and penalties from the EPA for failing to comply with the MS4 NPDES Phase 2 Stormwater permit, loss in function of the drain systems with increase difficulty to minimize and/or eliminate flooding and damage to public and private property, danger to public travel, increased mosquito breeding causing nuisance as well as health hazards, increased exposure for infiltration into sewer collection systems, deterioration of the roadway surface accelerated by the effect of poorly drained roadways and, in some cases, culverts that are in poor condition have a high rate for failure which would cause the roadway to collapse and result in full road closure, delayed travel times and unsafe conditions for all vehicle travel.

Timeframe:

Projects are included on the attached spreadsheet inclusive of Fiscal Year’s 2022-2026.

Replace. Freq.:

25 Years

Stakeholders:

The Town, as a MS4 official for the NPDES Phase 2 Stormwater permit, and residents that live near the roadways and water bodies prone to stormwater flooding; taxpayers, the motoring public, and Highway/Forestry Division

Operating Budget Impact:

Engineering Division and Highway/Forestry Division personnel time will be required to support the projects to be completed. Repairs will eliminate the cost for expensive emergency repairs, formation of potholes, scouring of the roadway edge, all of which result in the loss of production efficiency and increased supply costs.

Funding Source: Stormwater Enterprise, TIP

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$35,000.00	\$35,000.00	\$210,000.00	\$55,000.00	\$55,000.00	\$390,000.00
Construction	\$515,000.00	\$450,000.00	\$300,000.00	\$550,000.00	\$600,000.00	\$2,415,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$550,000.00	\$485,000.00	\$510,000.00	\$605,000.00	\$655,000.00	\$2,805,000.00

Basis of Cost Projection:

Cost project based on current bid pricing; does not include cost for MS4 Stormwater permit projects

Telemedia Enterprise



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Closed Captioning System Date: 11/30/2020

Project ID Number: _____ Revision Date: _____

Submitted By: Brian Dorrington Department: Telemedia

First Year Submission: FY22 Priority: FY22, Priority #1

Description of Project:

Purchase and install a permanent closed caption system.

Justification/Benefit:

This will allow us to offer closed captioning to hearing impaired residents and ensure we are in compliance with FCC and ADA regulations. This system will allow us to not have to rely on costly hourly plans which could run upwards of \$100,000 per year for an equivalent service.

Impact if not completed:

Inability to offer hearing impaired residents proper access to programming. Possibility of being out of compliance with FCC and/or ADA regulations.

Timeframe:

Summer/Fall, 2021

Replace. Freq:

Approx. 7-10 Years

Stakeholders:

Tewksbury Telemedia Department

Operating Budget Impact:

None

Funding Source:

Telemedia Department Capital Budget, Cable Enterprise Fund

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$2,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$2,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$165,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$5,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$174,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Basis of Cost Projection:

Departmental research.



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Town Hall Video Upgrade Date: 11/30/2020

Project ID Number: _____ Revision Date: _____

Submitted By: Brian Dorrington Department: Telemedia

First Year Submission: FY22 Priority: FY23, Priority #1

Description of Project:

Upgrade and replace Town Hall meeting cameras, switcher, enterprise room system and audio equipment. Create virtual interactive system.

Justification/Benefit:

Government meeting coverage makes up a large portion of our programming and it is vital to continue to deliver high quality video and audio to our residents. We would like to upgrade Town Hall meeting broadcasts by replacing old and failing equipment and incorporate the latest technology into our workflow. This project will also improve the quality of the meetings for in-person attendees.

Impact if not completed:

Strong likelihood of current system failure and inability to properly film government meetings and other events located in the meeting hall.

Timeframe:

Summer/Fall, 2022

Replace. Freq:

Approx. 6-10 Years

Stakeholders:

Tewksbury Telemedia Department

Operating Budget Impact:

None

Funding Source:

Telemedia Department Capital Budget, Cable Enterprise Fund

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$15,500.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$29,500.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$118,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$15,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$178,000.00	\$0.00	\$0.00	\$0.00	\$0.00

Basis of Cost Projection:

Departmental research.



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: TMHS Studio Upgrade Date: 12/01/2020

Project ID Number: _____ Revision Date: _____

Submitted By: Brian Dorrington Department: Telemedia

First Year Submission: FY22 Priority: FY23, Priority #1

Description of Project:

Upgrade and replace TMHS Studio equipment including switcher, cameras, sound equipment and all other dated or failing equipment.

Justification/Benefit:

TMHS Students use their production studio for class and for morning announcements. In addition, residents can create shows using these resources through the Telemedia Department.

Impact if not completed:

Strong likelihood of current system failure and inability to create high quality student and resident productions.

Timeframe:

Summer, 2023

Replace. Freq:

Approx. 6-10 Years

Stakeholders:

Tewksbury Telemedia Department

Operating Budget Impact:

None

Funding Source:

Telemedia Department Capital Budget, Cable Enterprise Fund

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$15,000.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$101,000.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$131,000.00	\$0.00	\$0.00	\$0.00

Basis of Cost Projection:

Departmental research.



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Custom Broadcast Flypack Date: 12/04/2020

Project ID Number: _____ Revision Date: _____

Submitted By: Brian Dorrington Department: Telemedia

First Year Submission: FY21 Priority: FY25, Priority #1

Description of Project:

Design and build custom mobile flypack.

Justification/Benefit:

A flypack is a custom made portable production system that can be outfitted with a switcher, audio mixer, camera controls, monitors and various other broadcast equipment. This compact, yet powerful system, can make filming professional remote multicamera productions easy and effective. A flypack would greatly improve the quality and workflow for producing remote multicamera productions.

Impact if not completed:

Lower quality multicamera productions with less efficient workflow.

Timeframe:

Fall, 2024

Replace. Freq:

Approx. 7-10 Years

Stakeholders:

Tewksbury Telemedia Department

Operating Budget Impact:

None

Funding Source:

Telemedia Department Capital Budget, Cable Enterprise Fund

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$50,000.00	\$0.00	\$0.00

Basis of Cost Projection:

Departmental research.



Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Broadcast Server Replacement Date: 12/02/2020

Project ID Number: _____ Revision Date: _____

Submitted By: Brian Dorrington Department: Telemedia

First Year Submission: FY21 Priority: FY26, Priority #1

Description of Project:

Upgrade and replace current broadcast server.

Justification/Benefit:

Our broadcast server is the most important piece of equipment we own and operate. It stores, plays and records all of our programs. It is recommended to replace a broadcast server every 6-8 years. This is to ensure that hardware works efficiently and that current technology is up to date.

Impact if not completed:

Possibility of system failure which would severely impact all Telemedia Department operations.

Timeframe:

Summer, 2025

Replace. Freq:

Approx. 6-8 Years

Stakeholders:

Tewksbury Telemedia Department

Operating Budget Impact:

None

Funding Source:

Telemedia Department Capital Budget, Cable Enterprise Fund

Capital Funding Request

Fiscal Year	2022	2023	2024	2025	2026	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$45,000.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00
Totals	\$0.00	\$0.00	\$0.00	\$0.00	\$56,000.00	\$0.00

Basis of Cost Projection:

Departmental research.