

Executive Summary

Section 1

EXECUTIVE SUMMARY

The Recommended Capital Plan

The Town Charter requires that the Town Manager, after consultation with the Board of Selectmen, submit in writing to the Board of Selectmen a careful, detailed estimate of the recommended capital expenditures showing specifically the amount necessary to be provided for each office, department and activity and a statement of the amounts required to meet the debt service requirements or other indebtedness of the Town. This plan includes the proposed FY2019 Capital Budget, which is recommended to the Finance Committee and ultimately to Town Meeting for consideration. The projects presented for FY2020-FY2023 reflect an assessment by municipal departments and the School Committee of future capital needs and are primarily shown for planning purposes. While many of these projects may ultimately be recommended for funding, the plan is a fluid one, and projects may be added and deleted from the list as circumstances change. The proposed financing plan for the recommended FY2019 capital budget is shown in Table 1.

	Table 1	•		
Fund	Cash	Debt	Other	Total
General Fund	\$9,183,869	\$72,511,000	\$1,855,000	\$83,549,869
Community Preservation Fund	\$2,820,000			\$2,820,000
Solid Waste Enterprise	\$345,360	\$645,000		\$990,360
Sewer Enterprise	\$2,301,111			\$2,301,111
Water Enterprise	\$3,311,048			\$3,311,048
Total (all funds)	\$17,961,388	\$73,156,000	\$1,855,000	\$92,972,388

FY2019 Highlights

A capital expenditure is defined by the Needham General By-laws as the acquisition, construction, renovation, betterment, or improvement involving land, public buildings and facilities; water and sewer system laterals, mains and appurtenances; and equipment or vehicles; provided that the cost is \$25,000 or more and the improvement will have a useful life of five years or more; or any planning, feasibility, engineering or design study in preparation for such capital expense. The FY2019 Capital Plan

includes continued focus on the buildings in the facility financing plan proposed for renovation and/or reconstruction in the near future: replacement of the Hillside School, Rosemary Recreation Complex, Public Safety Building, Fire Station #2, DPW Complex, Needham High School, Emery Grover, and the Memorial Park Complex. The Williams School, the Rosemary Recreation Complex, and the High School classroom addition projects have all been funded and are underway. Construction funding for the Public Safety Buildings, Fire Station #2, and the Memorial Park building is proposed for FY2019. The replacement of the DPW fueling station is complete, and funding for the design and construction of a storage facility on Central Avenue is also proposed for FY2019. Finally, additional feasibility funding for the Emery Grover Building is proposed for FY2019. FY2019. FY2019 is the first year in which the consolidation of building maintenance functions from Public Facilities to the Department of Public Works is presented in the Capital Improvement Plan.

Capital Planning 101

Capital Improvement Plan

The Capital Improvement Plan (CIP) is a multi-year tool used to coordinate the financing and timing of major public improvements for the Town of Needham. It contains a list of capital projects proposed for the Town within the next five years and reflects the recommendations of citizens, boards, commissions, and staff from each of the Town departments. The CIP identifies each proposed project and presents a summary description, estimate of cost, method of financing, and a schedule of implementation. Capital planning helps ensure that the community is positioned to:

- preserve and improve its basic infrastructure through construction, rehabilitation and maintenance;
- maximize the useful life of capital investments by scheduling major renovation, rehabilitation, or replacement at the appropriate time in the life-cycle of the facility or equipment;
- identify and examine current and future infrastructure needs and establish priorities among projects so that available resources are used to the community's best advantage; and
- improve financial planning by balancing needs and resources and identifying potential fiscal implications.

Operating Budget and Capital Budget

The Town's capital budget and operating budget are developed separately but are closely linked. The annual operating budget provides for general municipal service delivery, including personnel, supplies and other contractual services, and certain capital equipment. Most appropriations in the annual operating budget are for a single fiscal year. In contrast, the capital budget is a multi-year budget designed to expend monies which add to the physical assets of the Town. Capital projects typically require expenditures which take place beyond a single fiscal year, funding with debt because of significant costs to be shared by current and future beneficiaries, systematic acquisition over an extended period of time in order to implement major operating systems or programs, and scheduled replacement or maintenance of specific elements of physical assets.

Notwithstanding the differences between the two, the operating and capital budgets are closely interwoven inasmuch as operating costs related to capital projects are estimated and incorporated into the operating budget. Many capital projects will have an impact on operating costs once constructed. Town practice is to project the net effect a capital project will have on the operating budget. While maintenance and repair costs may be lower in a new facility, larger and more modern facilities are often more costly to operate. In addition, since many capital projects are financed through municipal debt, repayment of that debt becomes part of the operating budget and is incorporated into the Town's forecasting models. The necessity to incur some degree of debt in order to finance the CIP carries with it the burden to effectively manage that debt within the Town's financial resources.

Best Practices

The following best practices have been used in the development of the FY2019 operating and capital budgets:

- 1. Current revenues must be sufficient to support current expenditures.
- 2. The operating and capital budgets must be developed in conformance with the Town's comprehensive financial policies and must not be reliant on one-time revenue or unsustainable practices.
- 3. The five year Pro Forma budget must be updated on an annual basis to ensure that the underlying assumptions are adjusted based upon changing conditions and data.
- 4. Debt must not be used to fund on-going operating expenses, and will only be issued for capital improvements greater than \$250,000 with a useful life of five years or more.
- 5. The use of Free Cash to fund operations will be minimized by limiting such use to no more than 2% of the prior year's appropriated operating budget, or the actual turn back, whichever is lower.
- 6. Adequate contingency funds must be maintained.
- 7. Sufficient maintenance and replacement funds will be allocated to ensure that capital facilities and equipment are properly maintained.
- 8. The operating and capital budgets must be resilient allowing the Town to maintain existing service levels, withstand typical local and regional economic disruptions, and meet the demands of natural growth, decline, and change.
- 9. The operating and capital budgets must be sustainable meeting the needs of the present without compromising the ability of future generations to meet their own needs.

Budget Priorities

The primary goal of the Board of Selectmen in consideration of the FY2019 operating and capital budgets is the maintenance and optimization of existing Town services. In addition, mindful of the availability of revenue for appropriation, the Board has set the following priorities for FY2019:

- 1. Support for items that contribute to the achievement of Townwide goals and objectives.
- 2. Support for a five to ten year plan for the renovation, reconstruction and/or preservation of the Town's capital assets in the most prudent, realistic, and efficient manner.

- 3. Support for initiatives that contribute to financial sustainability, including the maintenance of a debt service plan that balances capital needs with the Town's ability to pay, identification of alternative funding sources for traditional cash capital needs, evaluation of financing alternatives, and alignment of capital and maintenance needs with appropriate funding sources.
- 4. Support for initiatives aimed at achieving greater coordination and efficiency among Town departments, and providing adequate resources to address identified service delivery and general administrative needs of the Town in a cost effective manner.
- 5. Commitment to ensure that not all identified recurring funds are committed for on-going expenses in order to reserve capacity for identified priorities in FY2020 and FY2021 (such as full-day kindergarten and public safety staffing).

Financial Benefits of Capital Planning

Needham's capital planning initiatives have contributed to the successful achievement and maintenance of its AAA bond rating from Standard and Poor's. This bond rating places Needham in the top tier of communities in Massachusetts and allows the Town to borrow at a lower interest rate. Investors and bond rating agencies stress the value of a CIP for a municipality seeking to borrow funds. The absence of a rational, long-term planning instrument would weigh against the bond rating assigned to Needham by rating agencies and the result would be higher interest rates on bond issues and the diversion of tax dollars to pay for the interest on loans. Another financial benefit of the capital planning process is the avoidance of poorly timed projects. Good planning can ensure that capital improvement efforts are coordinated. In addition, significant savings can accrue to taxpayers when major capital financing is coordinated so that bond issues are sold infrequently, and at times during the economic cycle when the Town can take advantage of low interest rates.

Development of the CIP

The process for preparing the FY2019 - FY2023 Capital Improvement Program and its associated FY2019 Capital Budget involves active participation by the Town Manager, Assistant Town Managers, and requesting departments, boards, committees and commissions. The Capital Budget is prepared in the context of a five-year determination of need by departments and the School Committee, in conjunction with the Town's overall financial capacity to affordably accommodate the required debt service payments. Projected debt service payments and budgetary impacts are forecast annually to help ensure affordability and sustainability of the Capital Improvement Program. The Town's Capital Improvement Policies provide guidance for assessing the capital needs of the Town. These policies, included in Section 6, define capital projects as those items requiring the expenditure of at least \$25,000 and having a useful life of more than five years. Recommended capital project requests are prioritized using the following criteria:

- the project is required to comply with State and/or Federal accessibility standards;
- the project is necessary to protect the health and safety of people; and
- the project is necessary to maintain an existing capital facility, or operation of equipment used in providing Town services.

In addition to the criteria listed above, the Town has a long practice of funding the systematic replacement of obsolete or wornout equipment, and those items requested for the improvement of operating efficiency and the equitable provision of services.

The development of the CIP occurs over the following approximate timeframe:

Late Summer — Following Town Meeting, departments are provided with their previously submitted five year requests for review, update and the addition of the next fifth year. While requests for each year should remain the same as in the initial request, there are occasionally changed circumstances which necessitate alterations to the requests. This information is returned to the Town Manager and staff for review. Also in the summer, the Assistant Town Manager/Finance Director develops and presents a pro forma budget for the ensuing five year period. The pro forma budget is the basis for the determination of the amount of revenue available to support the CIP.

Autumn — The Town Manager and staff meet with each department to gain a better understanding of each request.

Late Autumn/Early Winter — The Assistant Town Manager/Finance updates the preliminary debt schedules and financial forecasts in order to provide context to the Capital Budget as well as the five-year Capital Improvement Plan, and the Town Manager presents the Board of Selectmen with a proposed five-year plan.

January – The Town Manager transmits the Capital Improvement Plan, along with any recommendations made by the Board of Selectmen, to the Finance Committee by the first Tuesday after the first Monday in January.

January/February/March — The Finance Committee reviews each project in the capital budget and makes recommendations on items included in the Town Meeting Warrant.

May — The capital budget is presented to Town Meeting for approval.

Financing of Capital Projects

The number of capital projects to be funded must be considered in the context of the total operating budget, capital budget needs, and revenue growth. Capital improvement projects are funded through current receipts, reserves, and/or other funds such as grants.

Current Receipts – Current receipts include property tax revenue, local receipts (such as fees and charges), and state aid. This plan includes no projects to be funded from current receipts.

Free Cash – Free Cash is a function of actual revenue collections in excess of estimates and expenditures less than appropriations. Because Free Cash should not be relied upon as a recurring revenue source, the Town's practice is not to rely upon it as an operating revenue source. In this plan, we have continued the effort to minimize the Town's reliance on free cash

to support on-going operations by limiting such use to no more than 2% of the prior year's appropriated operating budget, or the actual turn back, whichever is lower. The recommended plan includes \$9,183,869 to be funded from Free Cash.

Capital Improvement Fund – In 2004, the Town created a General Fund Cash Capital Equipment and Facility Improvement Fund (CIF). The purpose of the CIF is to allow the Town to reserve funds to use for general fund cash capital. The CIF may be used in future years to fund the acquisition of new equipment, the replacement of existing equipment, and building and facility improvements which cost less than \$250,000, for which the Town may borrow for a period of five years or more. Projects must be included in the CIP in order to be eligible for funding through the CIF. This plan includes no projects to be funded from the Capital Improvement Fund.

Capital Facility Stabilization Fund – In 2007, the Town created a Capital Facility Stabilization Fund to allow the Town to reserve funds for design, maintenance, renovation or reconstruction relating to the structural integrity, building envelope or MEP (mechanical, electrical, plumbing) systems of then existing capital facilities. For this purpose, capital facility refers to any building or structure which is located on Town property and is under the jurisdiction of the Town Manager, including any Town-owned building, structure, room, or space within a building, facility, park or plaza, open space, driveway, landscaped area, or other physical improvements under the administrative control of the Town. This plan includes no projects to be funded from the Capital Facility Stabilization Fund.

Athletic Facility Improvement Fund – In 2012, the Town created an Athletic Facility Improvement Fund to reserve funds for the design, maintenance, renovation, reconstruction, or construction of athletic facilities. For the purpose of the fund, athletic facilities include any Town-owned building, structure, pool, synthetic turf and natural grass turf playing field or ball diamond, and associated grounds and parking areas whose primary purpose is for organized athletic events for Needham children, adults, and school teams. This plan includes \$1,855,000 to be funded from the Athletic Facility Improvement Fund for FY2019.

Debt Service Stabilization Fund – The November 2, 2015 Special Town Meeting approved the establishment of a Debt Service Stabilization Fund to set aside funds to be available as necessary to pay certain debt obligations. This fund is intended to be part of the Town's overall planning strategy for addressing capital facility needs. The fund would provide added flexibility to maintain the Town's capital investment strategy by smoothing out the impact of debt payments in years when the debt level is higher than is typically recommended. The fund would also be beneficial at times when interest rates are higher than expected. The plan for the fund is designed to ensure that the monies are not depleted in a single year, and that the amount available for appropriation is known before the budget year begins. All appropriations to and from the fund require Town Meeting action. This plan includes no projects to be financed through use of the Debt Service Stabilization Fund.

Retained Earnings – Three of the Town's operations – water, sewer, and solid waste – are accounted for as enterprise funds. The revenues and expenditures of these operations are not commingled with those generated by general fund operations. Generally, each enterprise will generate surplus funds on an annual basis. The Board of Selectmen's retained earnings policies are included in Section 6. The policies contain reserve targets to ensure liquidity and stability of operations. Surplus funds

above the target are considered available for appropriation. This plan includes \$5,957,519 in funding from the enterprise fund retained earnings accounts for fiscal year 2019 (RTS - \$345,360, Sewer - \$2,301,111, and Water - \$3,311,048).

Debt – The Board of Selectmen's debt management policies (Section 6) provide guidance in translating capital expenditures into annual debt service. Section 2 of this plan contains a graphic presentation of the Town's current debt service and a calculation of the Town's debt burden (annual debt service as a percent of total Town revenues). The figures used in calculating the debt burden are derived from the Town's long-term debt service schedule that is also included in Section 2. This plan includes a recommendation for \$73,156,000 in projects to be funded through General Fund debt (of which \$65,405,000 is in excluded debt) and \$645,000 to be funded through Enterprise Fund debt (RTS) for fiscal year 2019.

Community Preservation Fund – The Community Preservation Act (CPA) allows cities and towns to raise monies through a surcharge on the tax levy. These funds may then be used to acquire, create and preserve open space, acquire and preserve historic resources, create, preserve and support community housing, and acquire, create and preserve land for recreational use. The CPA also provides for matching funds from the Commonwealth. The CPA requires that each fiscal year Needham must spend, or set aside for later spending, at least 10% of the annual revenues in the Community Preservation Fund for each of three CPA target areas: open space (but not including land for recreational use), historic resources, and community housing. The remaining 70% may be appropriated at the Town's discretion as long as it is used for the three target areas or recreation. The statute also permits the Town to appropriate up to 5% of the annual revenue estimate for the administrative expenses of the Community Preservation Committee (CPC). Projects submitted for inclusion in the CIP that qualify for CPA funding are forwarded to the CPC for its consideration. This plan includes a recommendation for \$2,820,000 in projects contingent upon Community Preservation Funding cash for FY2019.

Other Available Funds – An Available Fund is actual monies which have become available and may be used to fund expenditures. Monies may become available after a project is completed and the cost was less than appropriated, monies that were previously set aside for future expenditure (e.g., stabilization fund), or monies that are received by the Town but must be specifically identified as a funding source in the Town Meeting motion. An available fund may be restricted to certain purposes (e.g. surplus bond proceeds, special stabilization funds, sale of surplus real estate, grants), or may be non-restricted and hence can be appropriated for any legal purpose. Some Available Funds carry over from year to year and others expire at the end of the fiscal year and close out to fund balance. This plan includes no projects to be funded from Other Available Funds in fiscal year 2019, other than the previously mentioned use of the Athletic Facility Improvement Fund.

The CIP Is a Flexible Planning Tool

While much of the Town's budget and financial planning efforts are by necessity focused on one or at most two year intervals, capital planning helps to focus attention on the Town's long-term objectives and financial capacity, and the balance between operating and capital needs. The Town is often faced with the option of reducing its capital plan in order to balance the operating budget. Having a formal and accepted plan helps to maintain a consistent level of spending for capital needs, barring extraordinary circumstances. Individual projects are evaluated against long-term objectives and in relationship to each other.

By strategically programming capital projects, the Town can maintain a tolerable level of debt service, and prevent unexpected changes in debt service payments.

Investment in Real Property, Facilities and Infrastructure

Asset preservation – committing necessary resources to preserve, repair, or adaptively re-use current assets – is a high priority for the Town in order to keep the it's physical plant and infrastructure in reliable operating condition. While significant investment in many capital facilities is still required or overdue, the Town of Needham has made an extraordinary investment in public infrastructure during the past decade. The Town's success in this area is a direct result of continued and sustained focus on asset evaluation, needs assessment, careful planning, and prioritization. The need for this level of investment in facilities and infrastructure is generally attributable to three factors - the age of the community and its infrastructure and assets, the built environment and amount of lane miles of roadway, and the growth in school age population after the Second World War that resulted in a building boom from 1951 to 1960. After the advent of Proposition $2\frac{1}{2}$ in 1982, the community found it difficult to make necessary investment in its array of school facilities. This resulted in a need for complete replacement or rehabilitation of the entire system beginning in the mid-1990s and continuing today. Finally, based on adoption of and changes to the Community Preservation Act, the Town has made a truly remarkable investment in athletic facility, parks, and recreational amenities including Walker Gordon Field, Greene's Field and Playground, Newman Fields, Eastman Trail, the Rail Trail, the all-abilities trail around the Needham Reservoir, and the reconstruction of the Rosemary Pool and Recreation Complex. Table 2 shows the Town's investment in facilities and infrastructure over the past five years.

Table 2							
Description	2014	2015	2016	2017	2018	Total	Average
Municipal Facilities	\$2,771,500	\$105,779	\$90,000	\$649,000	\$6,126,000	\$9,742,279	\$1,948,456
Townwide Facilities and Community Services	\$951,828	\$750,219	\$3,513,323	\$756,154	\$17,202,000	\$23,173,524	\$4,634,705
Public Works Infrastructure Program	\$600,000	\$1,760,000	\$3,453,500	\$1,700,000	\$2,011,000	\$9,524,500	\$1,904,900
School Facilities	\$4,292,276	\$200,000	\$9,368,000	\$58,791,714	\$15,168,000	\$87,819,990	\$17,563,998
Drains, Sewer, and Water Infrastructure	\$7,670,900	\$1,283,050	\$2,320,500	\$375,860	\$2,900,000	\$14,550,310	\$2,910,062
Total Appropriations	\$16,286,504	\$4,099,048	\$18,745,323	\$62,272,728	\$43,407,000	\$144,810,603	\$28,962,121

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Investment in Equipment, Technology and Fleet

The position of the Town with respect to its equipment and technology capital investment is also positive. Major categories of this capital spending include Public Safety, Public Works, and Public Facilities fleet and equipment, School and Town-wide technology, and School copiers and equipment. Table 3 shows the Town's investment in these categories of capital spending for the five year period FY2014 through FY2018.

Description	2014	2015	2016	2017	2018	Total	Average
All Other Functions	\$146,250		\$30,645			\$176,895	\$35,379
Public Facilities & Works	\$480,100	\$29,797	\$144,000	\$120,000	\$162,000	\$935,897	\$187,179
Public Safety	\$27,500				\$167,872	\$195,372	\$39,074
Public School	\$176,145	\$112,000	\$108,145	\$45,000	\$45,000	\$486,290	\$97,258
Equipment	\$829,995	\$141,797	\$282,790	\$165,000	\$374,872	\$1,794,454	\$358,891
All Other Functions	\$30,000	\$130,000	\$30,000		\$145,000	\$335,000	\$67,000
Public Facilities & Works		\$33,000	\$129,500			\$162,500	\$32,500
Public Safety		\$408,615				\$408,615	\$81,723
Public School	\$633,800	\$679,325	\$403,000	\$347,080	\$510,290	\$2,573,495	\$514,699
Technology	\$663,800	\$1,250,940	\$562,500	\$347,080	\$655,290	\$3,479,610	\$695,922
All Other Functions				\$87,353		\$87,353	\$17,471
Public Facilities & Works	\$1,011,000	\$343,572	\$1,146,902	\$730,618	\$640,433	\$3,872,525	\$774,505
Public Safety	\$94,242	\$248,267		\$137,877	\$224,677	\$705,063	\$141,013
Public School					\$99,611	\$99,611	\$19,922
Fleet	\$1,105,242	\$591,839	\$1,146,902	\$955,848	\$964,721	\$4,764,552	\$952,910
Total Appropriations	\$2,599,037	\$1,984,576	\$1,992,192	\$1,467,928	\$1,994,883	\$10,038,616	\$2,007,723

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Project Summaries – Recommended Projects for Fiscal Year 2019

GENERAL GOVERNMENT

TOWN OFFICE FURNITURE REPLACEMENT

The renovated Town Hall opened in October, 2011, and the Public Services Administration Building opened in February, 2010. Furniture in heavy use is in need of replacement. Furniture scheduled to be replaced in FY2019 includes the Selectmen's Chambers conference table and chairs, and furniture in poor and fair condition at the Public Services Administration Building. *(Submitted by: Office of the Town Manager)*

The Town Manager's recommendation for Town Offices Replacement Furniture is \$25,000 to be funded by Free Cash.

TOWN MULTI-FUNCTION PRINTER DEVICES

This funding will allow for the replacement of multi-function printers throughout the four primary Town locations (Town Hall, Public Services Administration Building, Public Safety, and Center at the Heights) that are obsolete or as part of a planned schedule replacement. In all there are nine of these devices between the buildings with only three of the devices not purchased during a capital project. Though several of these devices are currently over six years old, with one over eight, only one has reached 50% of the anticipated life cycles for each model according to the manufacturer estimated cycles per year. Based on the current usage, the expected life of these devices is between ten and twelve years. However the manufacturer of these devices does not guarantee the availability of parts or consumables past seven years. The cycle for replacement of these multi-function printers is therefore seven years. *(Submitted by: Information Technology Department)*

The Town Manager's recommendation for Town Multi-Function Printer Devices is \$35,600 to be funded by Free Cash in the Tier 2 category.

NON-PUBLIC SAFETY DATA CENTER SERVERS AND STORAGE UNITS

This funding is for the replacement of hardware within the three Town of Needham data centers. Phase 1 of the project, which is taking place in the current fiscal year (FY2018), includes the replacement of four servers, two storage units, and four switches. Phase 2 of the project will be the replacement of six servers, two storage units, and four switches. Data Center 1 is housed at the Town Hall, Data Center 2 is housed at the Public Services Administration Building, and Data Center 3 is housed at the Center at the Heights. Data Center 1 is the primary data center where the Town Departments access files and programs, the Internet, and network and Internet security takes place. The six servers at Town Hall are physical servers; however three of them maintain and support upwards of 50 virtual servers with corresponding data maintained on the storage units. The other

three are for specific software functions. The servers, storage unit, and switches at the Public Services Administration Building act as fail safe in case of the Town Hall's network and infrastructure going offline. The server and storage at the Center at the Heights is where backup data is housed and from there certain segments of the data are migrated off site. All replacements would be comparable to the current devices being used. Maintaining this hardware at a level that will support the needs of the Town Departments is critical to the Town's business continuity strategy. As equipment gets older it becomes more difficult to maintain the same level of quality and performance as when initially installed, and this directly affects the day-to-day operations of the Town. Unless circumstances require otherwise, FY2019 funding will be for Data Center 1 and Data Center 2 hardware replacement. *(Submitted by: Information Technology Department)*

The Town Manager's recommendation for Non-Public Safety Data Center Servers and Storage Units is \$180,000 to be funded by Free Cash.

PUBLIC SAFETY

PERSONAL PROTECTIVE EQUIPMENT - BUNKER GEAR

This funding is part of an annual program begun in FY2018 to replace Personal Protective Equipment ("PPE" or "bunker gear") for 20% of all firefighting personnel on an annual basis. This is to ensure the life span of the equipment does not exceed the ten year guideline. Ensembles issued prior to the recent purchase of a second set of PPE are approaching this time frame. Bunker gear includes boots, firefighting pants and coat. Firefighting personnel regularly work in toxic environments caused by spills, chemical releases and the products of combustion. Numerous studies have found the number of carcinogens and other toxins associated with the fire ground to be extremely high. Further, the toxicity of these carcinogens appears to be much greater and more concentrated today, due to the widespread use of synthetic and petroleum based building materials and furnishings found in modern construction. These unhealthy contaminants, chemicals, toxins and carcinogens adhere to firefighters' bunker gear, thus creating a lingering exposure concern for not only the firefighters, but to members of the public they serve, as they respond to calls for service. Current safety practices dictate that firefighters be issued two sets of PPE, so that once contaminated the equipment can be washed in extractors and dried in dryers designed specifically for that purpose. Maintaining a second set of PPE allows for contaminated equipment to be washed and dried properly, while allowing personnel to remain available to respond to calls. (Submitted by: Fire Department)

The Town Manager's recommendation for Personal Protective Equipment is \$43,424 to be funded by Free Cash.

POLICE USE-OF-FORCE TRAINING SIMULATOR

This funding will support the acquisition of an interactive Use-Of-Force training simulator, which will provide a platform for realistic, stress-induced training. The system provides scenarios that enhance marksmanship skills and improve decision-

making for the appropriate selection of force to be used. The simulator provides trainees with the ability to practice posture, verbalization, soft hand skills, impact weapons, chemical spray and lethal force. The system also provides a means for officers to practice de-escalation skills. Each trainee's scenario and reaction can be analyzed and then reviewed for training purposes. The system is portable and can be easily customized to meet the needs of the Department. The benefit of having an effective, realistic training program is to enhance public safety as well as reduce liability risks. *(Submitted by: Police Department)*

The Town Manager's recommendation for Police Use-Of-Force Training Simulator is \$47,000 to be funded by Free Cash.

PUBLIC SAFETY COMPLEX/STATION #2

The Public Safety Building, located at the intersection of Chestnut Street and School Street, opened in 1931, and was renovated in 1988-1989. Fire Station #2, located at the intersection of Highland Avenue and Webster Street, opened in 1949 and was also renovated in 1988-1989. The amount of space that was originally allocated within both buildings for the Police and Fire Departments is no longer sufficient to accommodate changes in operations, changing personnel needs, technology upgrades, and security improvements, and neither station is fully accessible for individuals with limited mobility.

In 1950, 19 years after the station opened, the Police Department had 25 sworn officers and responded to 1,774 calls. By 2015, the number of sworn officers was 49 and call volume had increased to 31,610. The proposed program meets many deficiencies identified in the Police Department, including the lack of adequate locker facilities for female officers, evidence and property storage, interview rooms and interview recording technology, public meeting space, records storage, dispatch areas, patrol and administrative office space, and report writing space. The prisoner holding cells are outdated and inadequate, and the current prisoner booking area is unsafe due to its size and configuration. The building lacks the ability to handle technology improvements due to available space needed, while the roof continues to leak into the records/server room on the second floor. The current climate control only works sporadically throughout the building creating numerous temperature variations. In 1950, the Fire Department had 27 firefighters. Call volume data is not available for 1950, but the Department responded to 600 calls in 1960. By 2015, the number of sworn firefighters was 64 and the Department responded to 3,915 calls. The proposed program meets many deficiencies identified in the Fire Department, including apparatus bays that are too small for modern fire trucks, insufficient area for performing equipment maintenance and repair, lack of facilities for storing and cleaning turnout gear, minimal existing office space, inadequate facilities for firefighter support such as bunkrooms, toilets and showers, and insufficient storage space for files and equipment.

The November 2, 2015 and February 10, 2016 Special Town Meetings and the 2017 Annual Town Meeting approved a total of \$390,000 in funding for feasibility studies and schematic design. The October 2, 2017 Special Town Meeting approved an appropriation of \$3,750,000 for full design of the project, which will be presented to the fall, 2018 Special Town Meeting for construction appropriation, and to the voters at the November 6, 2018 State election for debt exclusion funding. *(Submitted by: Police and Fire Departments)*

The Town Manager's recommendation for Public Safety Complex/Station #2 is \$65,405,000 to be financed by Excluded Debt.

PUBLIC SAFETY MOBILE DEVICES

This funding will replace laptops and tablets that are used in the Needham Police and Fire Department Vehicles. The hardware is used to access multiple applications during daily operations. The hardware communicates with the Public Safety CAD software as well as State and Federal databases. The devices themselves are hardened military specification hardware manufactured for above normal use in more intensive environments than normal off the shelf hardware. *(Submitted by: Information Technology Department)*

The Town Manager's recommendation for Public Safety Mobile Devices is \$35,000 to be funded by Free Cash.

PUBLIC SCHOOLS

BUILDING MANAGEMENT SYSTEM UPGRADE

The Town maintains a Building Management System (BMS) to manage the heating and cooling in all major facilities in Town. All of the buildings constructed since 2009, with the exception of the Newman School, are on the same system. These systems consist of internal sensors in the HVAC components and a backend software product that allows Building Maintenance staff to review and diagnose HVAC issues remotely as well as on-site. This system is critical to the maintenance of healthy air temperatures in the building. This funding will standardize all of the BMS so that only one system is in use. (A part of the Newman School will need to remain on a separate system because of the devices installed at the time of renovation.) This conversion will allow for greater standardization and will change the manner in which HVAC data is communicated. Currently, there are computer interfaces talking to devices within the building and then communicating this information to an outside computer for management. This new software would create a virtualized environment where the software would only be on the back end and no longer on the devices. This will eliminate unnecessary redundancy and help to improve tracking. This will also allow all of the Town's buildings to integrate with the Town's afterhours permitting system, which will reduce the amount of time it takes staff to input irregular schedules and ensure appropriate temperature for afterhours events. Unless circumstances require otherwise, in FY2019 the Town will upgrade the Front End Software and complete the conversion of the Pollard, Broadmeadow, Library, Mitchell, and Eliot Schools. (*Submitted by: Department of Public Works/Building Maintenance*)

The Town Manager's recommendation for Building Management System Upgrade is \$102,000 to be funded by Free Cash in the Tier 2 category.

EMERY GROVER FEASIBILITY STUDY REFRESH

Numerous Facilities Master Plans have indicated that the Emery Grover School Administration Building is in need of additional office and storage space, as well as extensive repair and modernization. The needed scope of renovation includes reorganizing office and meeting spaces, making the building fully ADA accessible, removing remaining asbestos and lead paint, and replacing deteriorating systems, including: windows, HVAC, electrical and plumbing. These renovations would allow for a more efficient use of space, as well as full utilization of all four floors and full handicapped accessibility. A feasibility study was conducted in August 2013 by DesignLAB Architects, which identified several options: renovation of the existing building, the purchase/renovation of commercial property, and new construction on an alternate Town-owned parcel. This request is to conduct a "refresh" of the original study, to focus exclusively on a project to renovate/reconstruct the Emery Grover Building at the Highland Avenue location, rather than the alternate options of purchasing/renovating commercial property or new construction on another Town-owned parcel. The study will include an updated project budget and schedule, address temporary relocation requirements, and identify any building code changes that will be needed to accommodate the projected use. In addition, the study will include the assessment of swing space options including timelines and project budget for the swing space. (*Submitted by: Needham Public Schools*)

The Town Manager's recommendation for Emery Grover Feasibility Study Refresh is \$70,000 contingent on Community Preservation Funding.

MITCHELL SCHOOL LOCKER REPLACEMENT

The current lockers at the Mitchell School are in need of repair. They are not appropriately sized for the school age population at the Mitchell and are broken. This request is to replace the existing lockers with lockers that are better suited for elementary school children. The Mitchell School is not scheduled to be renovated for at least ten years and this would help to improve the appearance as well as the functionality of the school. There are three different types of lockers at the Mitchell. One set require two students to share each locker. One set is too narrow to store backpacks. This results in the locker doors remaining open, which is dangerous in the hallways. The last set just needs refurbishment. The replacement lockers would be stacked on top of each other in order to accommodate wider lockers. These lockers would be easier for elementary aged students to store their backpacks and other items, and will be easier to open and close. This project will allow each student to have his or her own locker. (*Submitted by: Department of Public Works/Building Maintenance*)

The Town Manager's recommendation for Mitchell School Locker Replacement is \$70,000 to be funded by Free Cash in the Tier 2 category.

POLLARD BLUE AND GREEN GYM UPDATES

The Pollard gyms were identified in the feasibility study conducted in 2011 as in need of upgrade, and have been identified by the Director of Athletics as in need of improvement. These improvements consist of replacing the present rubber flooring with

another material that is more appropriate for basketball use, upgrading lighting, and installing mats along the side of the gym for safety. Lighting upgrades were completed under the Energy Efficient Upgrades request in FY2016. In FY2019, this funding will allow the Town to replace the flooring in the Blue and Green Gyms. The present rubber flooring is not ideal for basketball use and this building is used frequently by both school and community basketball groups due to its size. The rubber flooring will be replaced by a new type of flooring that would have the same bounce as wood flooring required for basketball usage, but does not have the ADA/MAAB accessible issues that wood flooring presents. Additionally, work will be done to improve the functionality and safety of both gyms. In the Blue Gym, the siding will be removed and replaced. The Blue Gym will also be painted to brighten the area. Backboards and winch mechanisms on the basketball hoops will be replaced and winch mechanisms will be installed on hoops that do not currently have them. Padding will also be installed behind all backboards. In the Green Gym, two sections of pull out seating, approximately 15'x15' each, will be installed in order to accommodate classes. This is a multi-year project with further improvements planned for future years. *(Submitted by: Department of Public Works/Building Maintenance)*

The Town Manager's recommendation for Pollard Blue and Green Gym Upgrades is \$540,000 to be funded by Free Cash.

POLLARD PHASED IMPROVEMENTS FEASIBILITY STUDY

This is a project to study the feasibility of phasing identified improvements at the Pollard School over multiple years, for the purpose of best addressing the needs of that facility in the most timely and economically feasible manner possible. Additionally, the study will evaluate the current condition of the Pollard modular classrooms and develop recommendations (as needed) for extending their useful life until such time as they can be replaced with permanent construction. *(Submitted by: Needham Public Schools)*

The Town Manager's recommendation for Pollard Phased Improvements Feasibility Study is \$65,000 to be funded by Free Cash.

SCHOOL COPIER REPLACEMENT

In May of 2003, Town Meeting authorized \$60,000 in first year funding to establish a replacement cycle for school photocopiers. School photocopiers are located in all the schools and the administration building, and are used both by administrative and teaching staff. Teachers use the machines to reproduce classroom materials, including homework sheets, exams, teaching packets, etc. Currently the School Department owns 47 copy machines. The FY2019 request replaces six copy machines. Copier replacement is planned on a cycle analysis, which projects when a copier should be replaced based on actual usage and the manufacturer's total estimated capacity. Copiers which are heavily used are replaced more frequently than copiers that are lightly used. A seven-year maximum is assumed for most machines, even if they have not yet reached maximum copy allowances, given the additional operating expense associated with servicing and maintaining older equipment, as well as the difficulty in obtaining replacement parts. This analysis assumes that copiers are re-deployed around the District as needed, to match copier use with equipment capacity. (Submitted by: Needham Public Schools)

The Town Manager's recommendation for School Copier Replacement is \$84,190 to be funded by Free Cash.

SCHOOL FURNITURE

This request continues the replacement cycle for school furniture in poor and fair condition at the Schools. Furniture at the Pollard Middle School is 25-30+ years old and in a state of disrepair after decades of heavy use. In FY2005 Town Meeting approved funding of \$20,500 to begin the replacement of furniture in poor condition. By FY2015, all furniture in 'poor' condition was replaced in the schools. In FY2019 \$30,500 is proposed for the resurfacing of cabinets in three Pollard science classrooms and installation of new counters in four Pollard science classrooms, and \$30,000 is proposed for the purchase of classroom furniture for Needham High School. (Submitted by: Needham Public Schools)

The Town Manager's recommendation for School Furniture is \$60,500 to be funded by Free Cash.

SCHOOL PHONE SYSTEM REPLACEMENT

The telephone system currently in use by the School Department consists of eight separate phone systems of varying ages from five to over 15 year old (estimated.) The systems employ manufacturer discontinued equipment, are unstable and are in constant need of repair. The phone systems in three buildings - Hillside, Mitchell and Emery Grover - have occasionally failed, leaving the buildings with no phone access. All systems require frequent repairs, which can only be performed by a contract technician via a technical service maintenance appointment. The existing system, in addition to being old and unstable, runs on antiquated PBX technology that uses traditional Verizon POTS (copper) lines for external calls and Centrex to connect internally within a network of Town departments. This type of system supports a limited number of concurrent external connections per building and a limited number of concurrent Centrex connections per building; when concurrent lines are maximized within a building, users receive a busy signal until a line becomes available. Accessibility of the current voicemail system also is a concern particularly for teachers who transition to different classrooms and locations throughout the day; their voicemail is only available from their "home" location. This request would replace the antiquated PBX system with a new phone system that would combine all of the buildings into a unified IP-based phone system. The new system would utilize the Town's fiber network and pooled SIP trunks to reduce overall cost while maintaining a secure, robust and reliable phone system. It would allow for tiered user licenses that are customized to roles and responsibilities. The School Department will assume responsibility for managing the new technology-based system from the Public Works/Building Maintenance Division. (Submitted by: Needham Public Schools)

The Town Manager's recommendation for School Phone System Replacement is \$319,000 to be funded by Free Cash.

SCHOOL TECHNOLOGY REPLACEMENT

This request is for funding to replace School Department technology, including computers, printers, IWBs, servers, laptop carts, and specialized instructional labs. The request reflects the decision in FY2017 to move Digital Learning Devices (DLDs) and staff laptops to the operating budget, as well the new classroom technology standard. In FY2017, funding for devices with a lifespan of fewer than five years was shifted to the operating budget. These devices included Digital Learning Devices (DLDs) such as iPads and Chromebooks, and laptops. The FY2019 submitted request is for \$303,600 and consists of computer hardware (computer labs, desktops, TV studio, interactive white boards, and video displays) in the amount of \$190,600 and infrastructure (servers, network hardware, and wireless infrastructure and access points) in the amount of \$113,000. *(Submitted by: Needham Public Schools)*

The Town Manager's recommendation for School Technology Replacement is \$303,600 to be funded by Free Cash.

PUBLIC WORKS

TRAFFIC IMPROVEMENTS

This funding would support projects that are recommended by the DPW and the Traffic Management Advisory Committee (TMAC). These recommendations include items such as permanent speed monitoring devices, traffic calming measures, and school zone enhancements. The proposed funding will support one or two construction-related requests per year, such as 500 feet of roadway granite curb installation, two school zone installations, two average traffic calming installations, several radar sign installations or sign and/or pavement markings. Unless circumstances require otherwise, FY2019 funding is proposed for the installation of granite curbing on Paul Revere Road and Brookline Street. *(Submitted by: Department of Public Works)*

The Town Manager's recommendation for Traffic Improvements is \$50,000 to be funded by Free Cash.

DPW BOILER REPLACEMENT/470 DEDHAM AVENUE

This funding will support design of the replacement of the DPW/470 Dedham Avenue boiler with two high efficiency condensing boilers. The increase to two boilers is based on both the need for redundancy in the heating season and the desire to improve energy efficiency. The boiler at the DPW was installed in 1961 and is past its useful life. This piece of equipment has required a number of repairs in order to maintain it in working order. A new boiler will improve the energy efficiency of heating the DPW. Installing two units will ensure that if one unit needs repair during the heating season, the building will have sufficient heat to prevent the pipes from freezing. The new boiler will be designed for natural gas and will increase the energy efficiency of the heating systems at the DPW. This project may be eligible for energy efficiency rebates to offset the cost of buying a more

efficient model. The project includes the upgrade of heat piping throughout the building with the assumption that the building will need to remain in use for the foreseeable future. (*Submitted by: Public Works/Building Maintenance*)

The Town Manager's recommendation for DPW Boiler Replacement 470 Dedham Avenue is \$34,000 to be funded by Free Cash in the Tier 2 Category.

DPW CENTRAL AVENUE STORAGE FACILITY

The recently completed DPW relocation feasibility study determined that all of the vehicle storage required to fulfill DPW operations programming needs cannot fit on the existing site (470/484 Dedham Avenue). The existing site has been approved by the Board of Selectmen as the preferred site for the ultimate reconstruction of the facility. Weston & Sampson evaluated many options and locations, recommending that a storage facility be constructed in a remote location. After reviewing recommendations with the PPBC and Board of Selectmen, Weston & Sampson has recommended that the facility be located at the RTS. The storage facility will address the needs of a modernized DPW facility and organization, including providing shelter for Town equipment which will increase its service life. The feasibility process included the development of a comprehensive vehicle and equipment list, including towed, ride-on, and small portable equipment along with classified storage type (i.e. garaged vs. covered), and presented equipment storage scenarios. This request will fund the design and construction of the facility to expedite the project, as the facility may be used to support off-site storage needs for the Fire Station #2 reconstruction project as well. *(Submitted by: Department of Public Works)*

The Town Manager's recommendation for DPW Central Avenue Storage Facility is \$7,900,000 to be funded by Free Cash in the amount of \$1,382,000, General Fund Debt Financing in the amount of \$3,788,000, and Water & Sewer Enterprise Fund Retained Earnings in the amount of \$2,730,000.

HILLCREST RADIO REPEATER BUILDING REPLACEMENT

This funding will support the replacement of the failing building at the base of the Birds Hill Water Tower on Hillcrest Road. The building houses radio equipment and related support components used by the following departments: Fire, Police, DPW, School Transportation, and Emergency Management. The new building will house some existing equipment, some new equipment, and a back-up generator. The current building, which was built with cement blocks, is deteriorating and has several water leaks in both the walls and the roof. There has also been damage to the building and its contents from animals. Additionally, the steel entrance door exhibits rust and rot. The current building size is 8'X10' and the proposed replacement building would be 8'X12', placing the back-up power generator in a separate room, as well as allowing modest room for future expansion. The building plays a critical role in the Town's public safety communication network. *(Submitted by: Department of Public Works)*

The Town Manager's recommendation for Hillcrest Radio Repeater Building Replacement is \$136,000 to be funded by Free Cash.

PUBLIC WORKS INFRASTRUCTURE PROGRAM

The Public Works Infrastructure Program allows the Department of Public Works to make improvements and repairs to Town infrastructure, including but not limited to roads, bridges, sidewalks, intersections, drains, brooks, and culverts. Each program is detailed below.

Street Resurfacing

This Program is essential to maintaining the structural and surface integrity of the Town's approximately 279 lane miles of accepted streets. The Town targets 17 lane miles per year to achieve a desired life cycle of 15 to 20 years. The primary strategy of this program is asphalt paving and incidental work. Incidental work may include asphalt berm curb, new grass shoulders, corner reconstruction including handicapped ramps, minor drainage improvements, street sign replacement, traffic markings, and signs. Applying this repair strategy in a timely manner will extend the useful life of the roadway for up to 15 years. Installing a monolithic asphalt berm curb better defines the edge of road, improves drainage and protects the shoulder from erosion. The Town targets roads with a Pavement Condition Index (PCI) of below 70 for resurfacing or specialized treatment. The Town targets a PCI of 60 or below for repair/renovation. The Town's goal is to maintain its roadway network at an average PCI rating of 75. Target funding for street resurfacing in FY2019 is \$820,000.

Traffic Signal & Intersection Improvements

This Program will fund traffic signal improvements, intersection improvements, and new traffic signal installations where none currently exist. In FY2019, DPW will evaluate intersection prioritization for future projects.

Sidewalk Program

This Program funds improvements to the network of sidewalks throughout the community. There are over 160 miles of accepted sidewalks in Needham. Over half of the Town's sidewalks do not comply with current standards and require significant improvements, including the installation of handicapped ramps. Sidewalk improvements must comply with Federal and State laws and construction standards. The target funding for FY2019 is \$500,000.

Storm Drain Capacity Improvements

This Program provides funding to improve roadway drainage capacity. The Town's Stormwater Master Plan identified a number of areas throughout Needham where improvements are required to resolve flooding problems and illicit discharge. Since the issuance of the Stormwater Master Plan numerous multi-unit developments have been built or planned in the Town of Needham. These developments include new roads with drainage structures and roof or sump connections that are then connected to existing Town systems. These new connections have increased the load on the Town's drainage system and caused flooding in some areas. Due to extensive drainage repairs that were required on Greendale Avenue, funds for FY2018 were diverted to that project. Unless circumstances dictate otherwise, FY2019 funding of \$103,500 is planned for engineering and design for Ardmore Road and Hunnewell Street.

Storm Drain System Repairs

This Program provides funding to repair failing storm drainage infrastructure within Town easements that have been discovered through investigation work. These projects will include the replacement of existing culverts that have deteriorated over time and are restricting flow. This work will eliminate flooding and capacity issues in the immediate vicinity. This project will provide funding over five years for the Drains Division to address small projects related to the Labor Day 2013 storm drainage remediation. Unless circumstances dictate otherwise, FY2019 funding in the amount of \$100,000 is targeted for engineering and design for 470 South Street.

Brooks and Culverts - Repair and Maintenance

It is the intention of the DPW to address the issue of poorly draining brooks, streams, waterways, and culverts throughout the Town that have been severely damaged by heavy rains/storms in the past. Flooding has caused the failure of retaining walls, resulting in extensive erosion and silt deposits in brooks and streams. The silt has provided a medium for vegetation and affected the flow of water, and the situation has resulted in the loss of useable abutting property and flooded basements. The Environmental Protection Agency (EPA) is currently finalizing stronger requirements for stormwater and permitting under the NPDES permit. Unless circumstances require otherwise, FY2019 funding is planned for construction in Meredith Circle.

Roadway Reconstruction

Town evaluates the sight distance, drainage, handicap ramps, sidewalks, subsurface utilities, public utility poles and overhead utilities of all roads. The physical condition of roads to be considered for full reconstruction includes shape, foundation and traffic volume. This is a multi-year process requiring surveying, designing, utility evaluation and construction. Some of the roads that may be targeted for full reconstruction in the future include: Marked Tree Road, Nehoiden Street, Kingsbury Street, sections of Central Avenue, and Webster Street from Dedham Avenue to South Street. No funding is allocated to the Roadway Reconstruction category in FY2019.

Bridge Repairs

Surrounded on three sides by the Charles River, the Town jointly maintains a number of bridges with neighboring communities. The Massachusetts Bridge Inspection Program has identified a number of bridges that have some level of deficiency and has recommended repairs. This Program is essential to improve the structural and/or surface integrity of all bridges throughout Needham. No funding is proposed for this category in FY2019.

<u>Guardrail</u>

Many of the Town's guardrails are noncompliant and the DPW is preparing a plan internally to systematically upgrade existing guardrails to make them both compliant and aesthetically pleasing. No funding is proposed for this category in FY2019. *(Submitted by: Department of Public Works)*

The Town Manager's recommendation for Public Works Infrastructure Program is \$1,773,500 - \$1,523,000 to be funded by Free Cash and \$250,000 to be financed by General Fund Debt.

STREETLIGHT CONVERSION TO LED

This funding will allow the Town to convert its network of streetlights to Light Emitting Diodes (LED). The Department conducted a Streetlight Pilot Program in the spring of 2017, testing existing streetlights against LED streetlights. The existing lights are High Pressure Sodium (HPS) lights, which were considered the most energy efficient lighting types for their purpose in the early 2000s. Currently, LEDs are considered the more energy efficient lighting type. Of the three LED streetlight models piloted, two received higher average ratings than the existing HPS streetlights by the Town residents who completed the online survey. The Metropolitan Area Planning Council (MAPC) conducted an estimate for the conversion of all of the Town's existing Cobra head streetlights, determining that there are 2,521 existing streetlights that need to be converted. The Town's energy savings would be approximately 393,296 kWh annually. LED lights will be warrantied for ten years, and the only costs for maintenance to the Town will be labor to address any issues, pole transfers, new lights, and the cost of knockdowns. Other Massachusetts towns and cities with comparable streetlight inventories that have participated in the MAPC LED conversion program have secured maintenance contracts valued at an average of \$0.53 per streetlight per year, while Needham currently pays \$14.24 per streetlight per year for its existing streetlight maintenance contract. Though not all Town-owned streetlights are eligible for LED conversion under the MAPC program, total maintenance savings for those that are eligible for conversion could exceed \$30,000 per year. (*Submitted by: Department of Public Works*)

The Town Manager's recommendation for Streetlight Conversion to LED is \$685,000 to be funded by Free Cash in the Tier 2 Category.

WATER QUALITY IMPROVEMENTS/ROSEMARY LAKE SEDIMENT REMOVAL

The Town entered into a Memorandum of Understanding (MOU) with the Environmental Protection Agency (EPA) to commence a Town-wide investigation of stormwater discharge to address the discharge of pollutants through stormwater into the Charles River Basin and other water bodies. Incorporated into this plan are improvements to the Stormwater Drainage System to upgrade the quality of the water discharged into the Charles River in Needham. This request is to support action items identified in the MOU. When the 2003 EPA National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit took effect, it incorporated several requirements identified in the MOU. There were a number of projects proposed to manage stormwater quality effectively. The second permit to be issued by the EPA will take effect July 1, 2018, pending ongoing litigation. This request for funding increased from the previous year because during the design process, it was determined that the depth of the sediment that needs to be removed is greater than what was originally estimated. This has increased the cubic yardage of sediment product that needs to be disposed. Funding for the construction portion of the Rosemary Lake Sediment Removal was delayed a year from FY2018 to FY2019. Analysis of Wildwood Drive pond was added to FY19 to address

concerns over the condition of the pond and its capacity to handle Town stormwater. (Submitted by: Department of Public Works)

The Town Manager's recommendation for Water Quality Improvements (Rosemary Lake Sediment Removal) is \$2,400,000 contingent on Community Preservation Funding, and \$25,000 to be funded by Free Cash in the Tier 2 category.

ENERGY EFFICIENCY UPGRADE IMPROVEMENTS

An energy efficiency study was conducted for ten municipal buildings in 2011. The results of this study illustrate that if the Town makes an initial investment in selected and recommended energy upgrades, the cost of these upgrades will pay for themselves within ten years. Unless circumstances require otherwise, FY2019 funding will be allocated to installing a bi-lighting system in the hallways at the Pollard Middle School (\$7,000), retro-commissioning the HVAC system at the Eliot School (\$57,000), and installing a bi-lighting system in the hallways at the High Rock School (\$7,000). *(Submitted by: Public Works Building Maintenance)*

The Town Manager's recommendation for Energy Efficiency Upgrade Improvements is \$71,000 to be funded by Free Cash.

COMMUNITY SERVICES

ATHLETIC FACILITY AND RECREATION IMPROVEMENTS / DESIGN FOR TURF REPLACEMENT

The Department of Public Works and Park and Recreation have developed a maintenance plan for all fields, which includes new construction, total reconstruction, partial renovation, irrigation, drainage improvements, and equipment replacement or repair (bleachers, fences/backstops, player benches, and miscellaneous equipment) for multi-use fields and ball diamonds. This request is for the design of the removal of the existing turf carpet, re-grading, and installation of new artificial field turf at DeFazio and Memorial Park. (Submitted by: Department of Public Works)

The Town Manager's recommendation for Athletic Facility and Public Recreation Improvements/Design for Turf Replacement is \$55,000 to be funded through the Athletic Facility Improvement Fund.

LIBRARY FURNITURE REPLACEMENT

The renovated library has been open to the public for more than eleven years, and, due to heavy use, the furniture is beginning to show wear and tear. Both public and staff computer chairs are slowly breaking and the covering on the arms is splitting. Some of the mesh on the Community Room stackable chairs is unraveling, the backs are separating from the frames, and food has been caught in the mesh and proven difficult to remove. The forty-two cloth public arm chairs are also showing wear from

heavy use, particularly on the arms. The thirty-eight leather public arm chairs are also beginning to show wear. (Submitted by: Needham Public Library)

The Town Manager's recommendation for Library Furniture Replacement is \$43,970 to be funded by Free Cash.

MEMORIAL PARK BUILDINGS AND GROUNDS IMPROVEMENTS

Winter Street Architects performed a feasibility study on the Memorial Park Building in 2016, and after design funds were approved at the May 2017 Annual Town Meeting, Winter Street continued to move forward with design documents, under the charge of the PPBC. The design is for a new two-story building which will be fully handicap accessible, and constructed in accordance with the building code. The building will enhance programs held at the park, and promote synergy among the other nearby Town facilities. The building will be a service point for High School athletics and other community activities, while keeping the focus on the site and its history. The first floor will have spaces for Needham High School home teams to meet, and a separate room for visiting teams. These rooms have been designed in a flexible manner so that they can be used for other community activities. The facility will include a concession room, restrooms for park users, and a small number of restrooms for team use. Storage will be available for the DPW Parks and Forestry Division, as well as for groups using the fields at Memorial Park. The second floor will have meeting space for the Trustees and other community groups, as well as a room for larger meetings. (*Submitted by: Memorial Park Trustees*)

The Town Manager's recommendation for Memorial Park Buildings and Grounds Improvements is \$5,900,00, \$1,032,000 to be funded from Free Cash, \$1,800,000 to be transferred from the Athletic Facility Improvement Fund, and \$3,068,000 in General Fund debt financing.

PUBLIC PLAYGROUNDS

The Town of Needham has 18 public playground locations: Broadmeadow (2), Eliot (2), Hillside (2), Mitchell (1), Newman (3), Claxton, Cricket, DeFazio, Greene's, Mills, Perry, Riverside, and Walker-Gordon. This funding will allow the upgrade of public playgrounds depending on need and condition. Projects under consideration for FY2019 funding include the Mitchell, Broadmeadow and Eliot Schools, Perry Park, and ADA improvements at Greene's Field. *(Submitted by: Park and Recreation Department)*

The Town Manager's recommendation for Public Playgrounds is \$300,000 contingent on Community Preservation funding.

ROSEMARY LAKE CAMP AND TRAIL

The three remaining buildings at the Rosemary Camp property are subject to vandalism and must be removed for safety reasons. The two smaller buildings were formerly latrines, and need to be decommissioned as part of demolition. The shelter building is not insulated and the electrical source was disconnected almost twenty years ago when a fourth building was lost in

a fire. A future project will include trail amenities and the installation of an open air picnic shelter and picnic tables installed on a concrete base to minimize vandalism. This area would be available for use by trail walkers as well as any programs offered by Park and Recreation or other Needham organizations. *(Submitted by: Park and Recreation Department)*

The Town Manager's recommendation for Rosemary Lake Camp and Trail is \$50,000 subject to Community Preservation funding.

GENERAL FUND FLEET REPLACEMENT PROGRAM

The Town's fleet replacement program was established in FY2015. The program includes a budget and schedule for the Town's rolling stock fleet of appropriately 220 vehicles, trailers, and large specialized attachments and the School Department fleet of 14 vans and buses. General purpose vehicles include pickup trucks, a variety of sedans, SUV's, vans, and police vehicles (87). They comprise approximately 39 percent of the entire fleet. General purpose vehicles are utilized in every department and are relatively inter-changeable. The replacement of these vehicles can proceed on a regular schedule and should be part of the of the Town's recurring costs. The Town relies on a number of trailers for the purpose of moving tools and equipment, hauling trash and debris, and transporting special equipment. The Town has 47 trailers which represents approximately 23 percent of the fleet. Specialized, high value vehicles and snow and ice equipment comprise the other 38 percent of the fleet. These vehicles and equipment are just as integral to Town operations as the general purpose vehicles, but serve the unique purposes of specific departments or divisions. Included in this group are the high value vehicles such as ambulances, large dump trucks, fire engines, street sweepers, and others for which appropriations need to be planned. *(Submitted by: Multiple Departments)*

UNIT	DIVISION	YEAR	REPLACEMENT	AMOUNT
1	Administration	2011	Passenger Vehicle	\$33,616
44	Engineering	2011	Passenger Vehicle	\$33,616
46	Engineering	2011	Passenger Vehicle	\$33,616
4	Fleet	2006	Work Truck Class 3	\$82,671
65	Parks & Forestry	2015	Ford F350 Work Truck Class 3	\$66,037
301	Parks & Forestry	2009	Work Van	\$34,069
702	Building Maintenance	2001	Work Truck Class 2	\$45,765
Van 4	Schools	2011	Transport Van	\$48,776
Van 5	Schools	2011	Transport Van	\$48,776
Total				\$426,942

GENERAL FUND CORE FLEET REPLACEMENT

GENERAL FUND FLEET REPLACEMENT – SPECIALIZED EQUIPMENT

UNIT	DIVISION	YEAR	REPLACEMENT	AMOUNT
55	Highway	2011	Ford F550	\$142,495
107 (Tier 2)	Highway	2008	Sidewalk Plow	\$190,811
181 (Tier 2)	Highway	2012	Street Sweeper	\$264,101
38 (Tier 2)	Parks & Forestry	2007	Work Truck Class 6	\$202,169
183 (Tier 2)	Parks & Forestry	2007	Trailer	\$25,722
E02	Fire	1999	Fire Engine	\$840,163
Total				\$1,665,461

REPLACEMENT SNOW AND ICE EQUIPMENT

UNIT	DIVISION	YEAR	REPLACEMENT	AMOUNT
76	Highway	2006	Skid Steer Loader	\$122,182

The Town Manager's recommendation for General Fund Core Fleet Replacement is \$426,942 to be funded by Free Cash.

The Town Manager's recommendation for General Fund Specialized Equipment is \$1,272,481 to be funded by Free Cash in the Tier 1 category and \$392,980 to be funded by Free Cash in the Tier 2 category.

The Town Manager's recommendation for General Fund Snow & Ice Replacement is \$122,182 to be funded by Free Cash.

RECYCLING AND TRANSFER STATION (RTS) ENTERPRISE FUND

SMART TECHNOLOGY TRASH CANS

The Town has been investigating long term strategies for reducing public litter. Over the past year, the DPW has met with vendors to review a Town-wide deployment of waste management receptacles. These receptacles have two compartments, one for recycling and one for trash, with solar powered compactors, and technology that provides an alert when the receptacles are full. The Town is pursuing a pilot program to deploy these receptacles at two recreational facilities around Town. This deployment will include 12 trash and recycling receptacles. Eleven receptacles will be solar powered compactors and one will be a solar powered non-compactable receptacle. The solar powered compactors will be deployed in areas of high trash volume and

the non-compactable receptacle will be deployed in an area that is not prone to substantial trash generation. The receptacles will be purchased by the Town and their impact on reducing overflowing trash and minimizing odors will be monitored. There is a potential in the future to either purchase or lease additional receptacles. The 12 trash and recycling receptacles being purchased under this pilot program may also be incorporated into a lease program in the future. *(Submitted by: Department of Public Works)*

The Town Manager's recommendation for Smart Technology Trash Cans is \$100,000 to be funded by RTS Enterprise Fund Retained Earnings.

RECYCLING AND TRANSFER STATION PROPERTY IMPROVEMENTS

This funding will enable the Town to make improvements to the Recycling & Transfer Station (RTS) facility to increase efficiency, comply with regulatory requirements, and improve the facility function. The Town's design consultant conducted two evaluations in 2016 on the roof and structure of the 1998 building. Emergency structural repairs were made to address immediate safety concerns in the building, including cleaning and painting of the steel framing, and repairs to the fire protection system. The remaining structural repairs that must be addressed include miscellaneous repairs to the pre-engineered metal framing, additional repairs to the fire protection system, additional cleaning and painting of the steel framing, roof repair, installation of a fall protection/warning system at tipping pit, replacement of the steel approach at tipping pit, and repair of the slab-on-grade. This funding will support the design, engineering and construction of these items. *(Submitted by Department of Public Works)*

The Town Manager's recommendation for RTS Property Improvements is \$645,000 to be financed by RTS Enterprise Fund debt.

FLEET REPLACEMENT – SPECIALIZED EQUIPMENT

Unit	Division	Year	Replacement	Amount
143	RTS	2010	Large Tractor Loader	\$245,360

The Town Manager's recommendation for RTS Specialized Equipment is \$245,360 to be funded by RTS Enterprise Fund Retained Earnings.

SEWER ENTERPRISE FUND

SEWER MAIN EXTENSION ZONES I AND II

The Massachusetts Department of Environmental Protection designates certain sensitive areas for aquifer protection. The Zone I and Zone II aquifer protection areas for the Charles River Wellfield include homes with private septic systems. Zone I includes land within a 400 foot radius of existing or potential public water supply wells, and Zone II includes the area of an aquifer that, given the most severe pumping and recharge conditions that can be realistically anticipated, would potentially be affected by nearby septic systems. All three of Needham's wells are located in an area that is vulnerable to contamination from nearby septic systems. Extending the sewer main will enable access to homes within Zones I & II and reduce the risk of contamination. This funding will support the installation of a new sewage pumping station and extension of the sewer main in Winding River Road. With this new service, the Town will provide sewer service for one critical home on a private septic system. This service will extend 712 feet up Winding River Road, allowing additional homes to connect to the sewer system through a betterment program. *(Submitted by: Department of Public Works)*

The Town Manager's recommendation for Sewer Main Extension Zone I and II is \$690,000 to be funded by Sewer Enterprise Fund Retained Earnings.

SEWER MAIN REPLACEMENTS

The Greendale Avenue/Route 128 sewer interceptor is in need of rehabilitation/replacement. The existing sewer line is deteriorating and in need of rehabilitation/replacement. This funding will replace or reline 12,000 feet (2.25 miles) of 18 inch reinforced concrete gravity sewer main running through Town property in the Right of Way from Greendale Avenue near Cheney Street towards Route 128, and along the Route 128 Right of Way to Great Plain Avenue. This interceptor sewer collects and conveys waste water from numerous sewer lines. FY2019 funding will be allocated to a feasibility study for this project.

The Town Manager's recommendation for Sewer Main Replacements is \$330,000 to be funded by Sewer Enterprise Fund Retained Earnings.

SEWER SYSTEM INFILTRATION & INFLOW (I/I) REMOVAL

The Town recently completed a study identifying priority areas for inflow and infiltration removal for the next ten years. The Town of Needham, along with numerous other communities, is under Administrative Orders from the Department of Environmental Protection (DEP) to identify and remove Infiltration and Inflow (I/I) in existing sewer systems. Infiltration is defined as groundwater or storm water runoff that enters the system through deteriorated pipe or manhole structures that need to be repaired. Inflow is defined as clean, non-septic water, which is introduced to the system. This water is generally produced by residential sump pumps that drain basements. Unless circumstances require otherwise, this funding will support the design of the removal of the remaining locations of identified infiltration in the system.

The Town Manager's recommendation for Sewer System Infiltration and Inflow Removal is \$205,000 to be funded by Sewer Enterprise Fund Retained Earnings.

CORE FLEET REPLACEMENT

Unit	Division	Year	Replacement	Amount
28	Sewer	2001	Light Work Truck Class 3	\$64,247
94	Sewer	2014	Light Work Truck Class 2b	\$67,864
Total				\$132,111

(Submitted by: Department of Public Works)

The Town Manager's recommendation for Sewer Core Fleet Replacement is \$132,111 to be funded by Sewer Enterprise Fund Retained Earnings.

WATER ENTERPRISE FUND

BIRDS HILL WATER TANK

The water tank located at Birds Hill ensures that the Town is able to maintain proper operating system pressure of the water distribution system. The tank is filled through one central pipe at the bottom of the tank — and this is also how the tank is drained. The movement of water is therefore predominately at the bottom of the tank. This tank is 100 feet in diameter at the foundation and is 45 feet in elevation. This funding will allow the Town to install a mixing valve that will circulate water throughout the tank. The improved circulation will assist in maintaining chlorine levels inside the tank, improving water quality. *(Submitted by: Department of Public Works)*

The Town Manager's recommendation for Birds Hill Water Tank is \$340,000 to be funded by Water Enterprise Fund Retained Earnings.

WATER DISTRIBUTION SYSTEM IMPROVEMENTS

Water System Rehabilitation

Through the Water System Rehabilitation Program, the Town's water infrastructure is continually evaluated to assess functionality and performance, and to identify areas in need of repair. Water infrastructure requires ongoing attention and periodic replacement, and portions of the Town's water infrastructure are 75+ years old and approaching the end of their useful

life. A diligent rehabilitation program encompassing maintenance, repair, and replacement ensures a continual supply of water to the public. The Department of Public Works prioritizes replacement of water pipes based upon pipe condition, water break history, and adequacy of water flow to fire hydrants. Unless circumstances require otherwise, the FY2019 funding will support the replacement of 8 inch water mains on Bennington Street from High Street to Concord Street (unlined) and on Country Way (unlined).

Water Main Replacement

This request is to replace a total of 11,500 linear feet of 14" water main. The existing water line dates from 1936-1939 and is cast iron with bitumastic or coal tar liner. The water quality in areas serviced by this line is a concern, as the lining of these pipes breaks down over time causing discoloration in the water. In 2008, the Town began addressing areas served by this type of piping, which at the time was approximately 19,000 linear feet. The 14" water main was relined from the Charles River Water Treatment Facility to Grove Street. In 2010, the second phase of this project replaced the 14" water main with a new 16" water main extending from Grove Street to Central Avenue. In FY2016, the Town replaced the water main in Oak Street from Maple Street to Chestnut Street and in Chestnut Street from Oak Street to School Street. Unless circumstances require otherwise, FY2019 funding will be allocated to the construction of the remaining 11,500 linear feet of water main to be replaced from the intersection of Pine Street to Marked Tree Road to Oak Street, and Maple Street. The 14 inch water main will be replaced by a 16 inch water main. (*Submitted by: Department of Public Works*)

The Town Manager's recommendation for Water Distribution System Improvements is \$830,000 to be funded by Water Enterprise Fund Retained Earnings.

WATER SPECIALTY EQUIPMENT

Unit	Division	Year	Replacement	Amount
14	Water	2009	Heavy Duty Truck Class 7	\$239,404
22	Water	2009	Medium Work Truck Class 4	\$115,644
Total				\$355,048

(Submitted by: Department of Public Works)

The Town Manager's recommendation for Water Specialty Equipment is \$355,048 to be funded by Water Enterprise Fund Retained Earnings.

Capital Recommendations and Funding Sources

Section 2

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FY2019

Capital Budget

					g Recommend	lations				
Title	Code*	Submitting Department	Cat*	2019 Department Request	Cash Capital All Tiers	Debt	Other Funding Source	No Action	Note	Page
Athletic Facility and Public Recreation Improvements (Claxton Field Lighting)	Μ	Public Works	3	510,000				510,000	Insufficient Details	3-040
Athletic Facility and Public Recreation Improvements (Design for Turf Replacement)	Μ	Public Works	3	55,000			55,000		Funding from AFIF	3-040
Building Management System Upgrade	М	Public Works	1	102,000	102,000					3-067
DPW Boiler Replacement 470 Dedham Avenue	М	Public Works	2	34,000	34,000					3-071
DPW Central Avenue Storage Facility	Μ	Public Works	2	7,900,000	1,382,000	3,788,000			Refer to the Sewer and Water Enterprise sections for their allocated shares.	3-043
Energy Efficiency Upgrade Improvements	Μ	Public Works	2	71,000	71,000					3-077
Facility Assessment for Sustainable Building Management	MB	Public Works	2	100,000				100,000	Pending Results from Other Study	3-079
Hillcrest Radio Repeater Building Replacement	Ν	Public Works	2	136,000	136,000					3-059
Library Furniture Replacement	М	Library	1	43,970	43,970					3-097
Memorial Park Buildings and Grounds Improvements	М	Town Manager	2	5,900,000	1,032,000	3,068,000	1,800,000		\$1.8M from AFIF; CPA funding if available would reduce the amount to be funded by Debt.	3-119
Mitchell School Locker Replacement	Ν	Public Works	2	70,000	70,000				First time request	3-087
Non-Public Safety Data Center Servers and Storage Units	Ρ	Finance	1	180,000	180,000					3-007
Personal Protective Equipment	М	Fire	1	43,424	43,424					3-036
Police Use-Of-Force Training Simulator	М	Police	1	47,000	47,000					3-032
Pollard Blue & Green Gym Upgrades	М	Public Works	2	540,000	540,000					3-091

FY2019

Capital Budget

					g Recommen	dations				
Title	Code*	Submitting Department	Cat*	2019 Department Request	Cash Capital All Tiers	Debt	Other Funding Source	No Action	Note	Page
Pollard Phased Improvements Feasibility Study	М	School	2	65,000	65,000					3-171
Public Safety Complex/Station #2	Μ	Town Manager	2	65,405,000		65,405,000			Project to be funded by Excluded Debt; Ballot Question November 2018.	3-001
Public Safety Data Center Servers and Storage Units	Р	Finance	1	30,000				30,000	Grant Funding Possibility	3-009
Public Safety Mobile Devices	Р	Finance	1	35,000	35,000					3-011
Public Works Infrastructure Program	М	Public Works	3	1,773,500	1,523,500	250,000				3-052
Replace Unit 1 Passenger Vehicle	С	DPW Admin	4	33,616	33,616					3-019
Replace Unit 107 Sidewalk Tractor Plow	L	DPW Highway	4	190,811	190,811					3-019
Replace Unit 181 Street Sweeper	L	DPW Highway	4	264,101	264,101					3-019
Replace Unit 183 Trailer Large	L	DPW Parks	4	25,722	25,722					3-019
Replace Unit 301 Work Van	С	DPW Parks	4	34,069	34,069					3-019
Replace Unit 38 Medium Work Truck Class 6	L	DPW Parks	4	202,169	202,169					3-019
Replace Unit 4 Light Work Truck Class 3	С	DPW Garage	4	82,671	82,671					3-019
Replace Unit 44 Passenger Vehicle	С	DPW Engineering	4	33,616	33,616					3-019
Replace Unit 457 Passenger Vehicle	В	Building	4	21,336				21,336		3-019
Replace Unit 46 Passenger Vehicle	С	DPW Engineering	4	33,616	33,616					3-019

FY2019

Capital Budget ...

					g Recommend	ations				
Title	Code*	Submitting Department	Cat*	2019 Department Request	Cash Capital All Tiers	Debt	Other Funding Source	No Action	Note	Page
Replace Unit 55 Medium Work Truck Class 5	L	DPW Highway	4	142,495	142,495					3-019
Replace Unit 65 Light Work Truck Class 3	С	DPW Parks	4	66,037	66,037					3-019
Replace Unit 702 Light Work Truck Class 2	С	DPW Building	4	45,765	45,765					3-019
Replace Unit 76 Skid Steer Loader	Х	DPW Highway	4	122,182	122,182					3-019
Replace Unit E02 Fire Truck	L	Fire	4	840,163	840,163					3-019
Replace Unit Van 4 Transport Van	С	School	4	48,776	48,776					3-019
Replace Unit Van 5 Transport Van	С	School	4	48,776	48,776					3-019
School Copier Replacement	R	School	1	84,190	84,190					3-180
School Furniture	R	School	1	60,500	60,500					3-190
School Phone System Replacement	N	School	1	88,000	319,000				Department requested \$319,000 over several years, recommendation is to fund the project in whole and transfer responsibility of the telephone system effective July 1, 2018 to the School Department.	3-192
School Technology Replacement	R	School	1	303,600	303,600					3-184
Specialty Equipment - Unit 344 Large Mower	Μ	Public Works	1	76,500	76,500					3-048
Streetlight Conversion to LED	Ν	Public Works	3	685,000	685,000				New Request, budget savings merits early consideration.	3-061
Time Clock System	PB	Public Works	х	81,000				81,000	Not Capital	NA

FY2019

Capital Budget

					g Recommend	ations				
Title	Code*	Submitting Department	Cat*	2019 Department Request	Cash Capital All Tiers	Debt	Other Funding Source	No Action	Note	Page
Town Multi-Function Printer Devices	М	Finance	1	35,600	35,600					3-001
Town Offices Replacement Furniture	Р	Town Manager	1	25,000	25,000					3-003
Traffic Improvements	Р	Public Works	3	50,000	50,000					3-065
Water Quality Improvements (Wildwood Drive Pond Analysis)	М	Public Works	3	25,000	25,000					3-134
General Fund				86,791,205	9,183,869	72,511,000	1,855,000	742,336		
Emery Grover Feasibility Study Refresh	N	School	2	70,000	70,000					3-162
Memorial Park Buildings and Grounds Improvements	М	Town Manager	2	Refer General Fund					CPA funding, if available, would reduce the amount to be funded by General Fund Debt.	3-119
Open Space Land Purchase	М	Park & Recreation	3	1,000,000				1,000,000	No specific request	3-113
Public Playgrounds	М	Park & Recreation	1	300,000	300,000					3-110
Rosemary Lake Camp and Trail	М	Park & Recreation	3	50,000	50,000					3-115
Water Quality Improvements (Rosemary Lake Sediment Removal)	М	Public Works	3	2,400,000	2,400,000					3-134
Community Preservation Fund				3,820,000	2,820,000			1,000,000		
Big Belly Trash Cans	Ν	Public Works	1	100,000	100,000					3-121
Replace Unit 143 Large Tractor Loader	L	DPW RTS	4	245,360	245,360					3-019
RTS Property Improvements	М	Public Works	2	645,000		645,000				3-129
RTS Enterprise Fund				990,360	345,360	645,000				

FY2019 Capital Budget

				Funding	g Recommend	ations				
Title	Code*	Submitting Department	Cat*	2019 Department Request	Cash Capital All Tiers	Debt	Other Funding Source	No Action	Note	Page
DPW Central Avenue Storage Facility	М	Public Works	2	Refer General Fund	944,000				Refer to the General Fund section	3-043
Replace Unit 28 Light Work Truck Class	С	DPW Sewer	4	64,247	64,247					3-019
Replace Unit 94 Light Work Truck Class 2b	С	DPW Sewer	4	67,864	67,864					3-019
Sewer Main Extension Zone I and II	М	Public Works	3	690,000	690,000					3-136
Sewer Main Replacements	М	Public Works	3	330,000	330,000					3-138
Sewer System Infiltration & Inflow Removal	М	Public Works	3	205,000	205,000					3-144
Sewer Enterprise Fund				1,357,111	2,301,111					
Birds Hill Water Tank	М	Public Works	3	340,000	340,000					3-146
DPW Central Avenue Storage Facility	М	Public Works	2	Refer General Fund	1,786,000				Refer to the General Fund section	3-043
Replace Unit 14 Heavy Duty Truck Class 7	L	DPW Water	4	239,404	239,404					3-019
Replace Unit 22 Medium Work Truck Class 4	L	DPW Water	4	115,644	115,644					3-019
Water Distribution System Improvements	М	Public Works	3	830,000	830,000					3-150
Water Supply Development	М	Public Works	3	400,000				400,000		3-157
Water Enterprise Fund				1,925,048	3,311,048			400,000)	
Total				94,883,724	17,961,388	73,156,000	1,855,000	2,142,336	5	

FY2019

Capital Budget

				Funding	g kecommen	ations				
Title	Code*	Submitting Department	Cat*	2019 Department Request	Cash Capital All Tiers	Debt	Other Funding Source	No Action	Note	Page
Buildings & Facilities - All			2	80,936,000	6,130,000	72,906,000	1,800,000	100,000		
Equipment & Technology - All			1	1,554,784	1,755,784			30,000		
Fleet - All			4	2,968,440	2,947,104			21,336		
Infrastructure & Land - All			3	9,343,500	7,128,500	250,000	55,000	1,910,000		
Other - All				81,000				81,000		
TOTAL				94,883,724	17,961,388	73,156,000	1,855,000	2,142,336		

Code

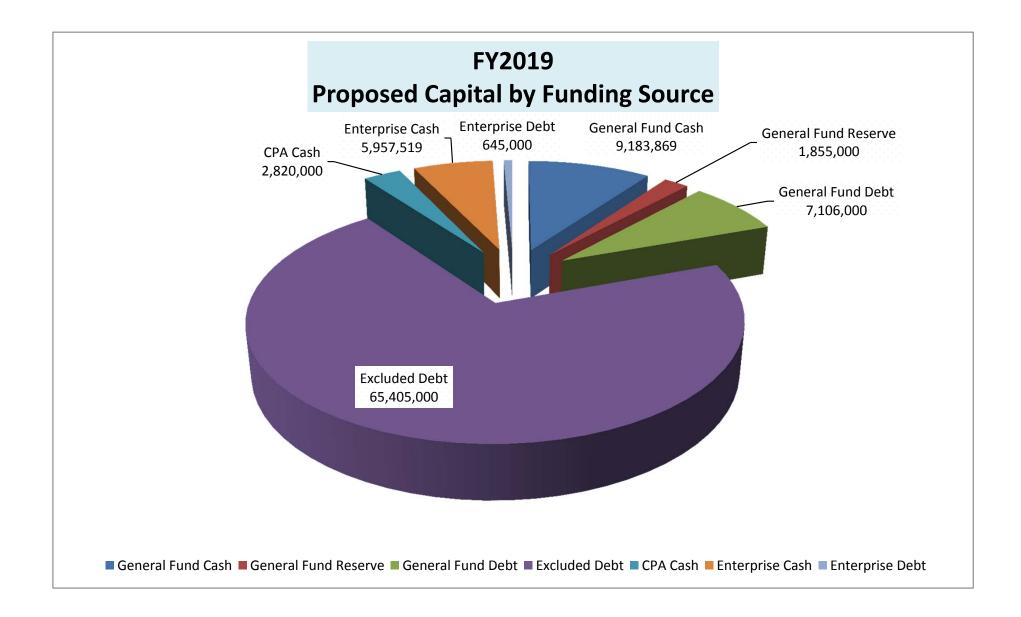
- B = Funding may be considered under the operating budget/special warrant article
- C = Core Fleet
- D = Recommendation is deferred or on hold pending other actions
- E = Emergency approval
- F = Funded appropriation outside the capital plan
- G = Request may not qualify as capital submission
- L = Specialized Fleet Equipment
- I = Project submission is incomplete or waiting additional information
- M = Submission has been modified from previous submission
- N = New submission with this CIP
- P = Project request has appeared in previous CIP's
- Q = Request does not qualify as a capital submission
- R = Request is a regularly occurring capital expense
- S = No recommendation; under study
- U = Urgent request based on identified conditions

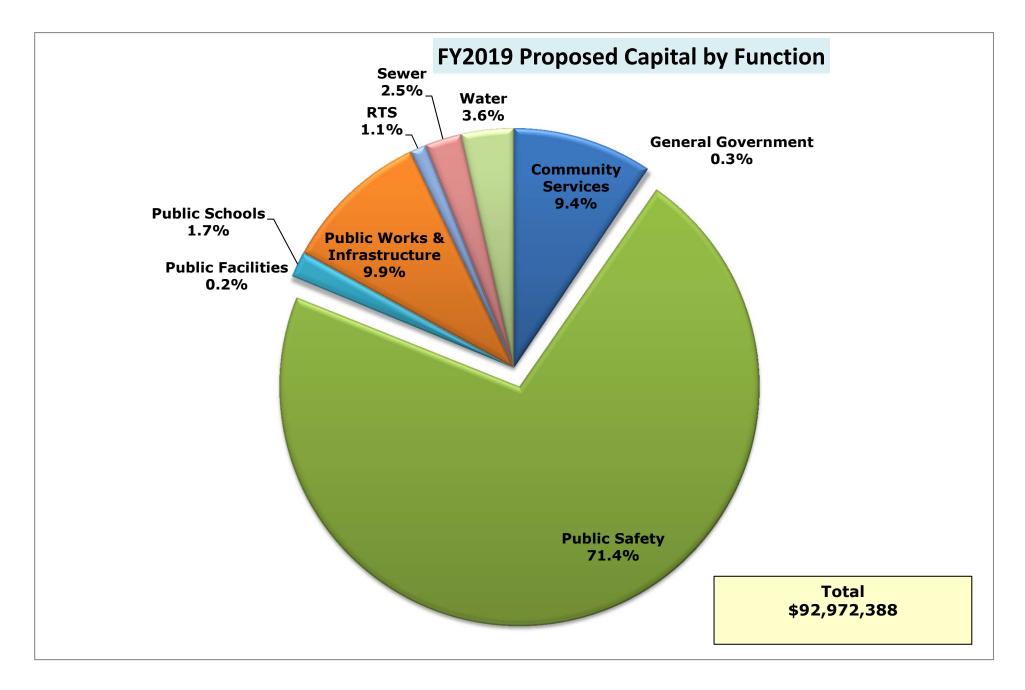
Cat (Category)

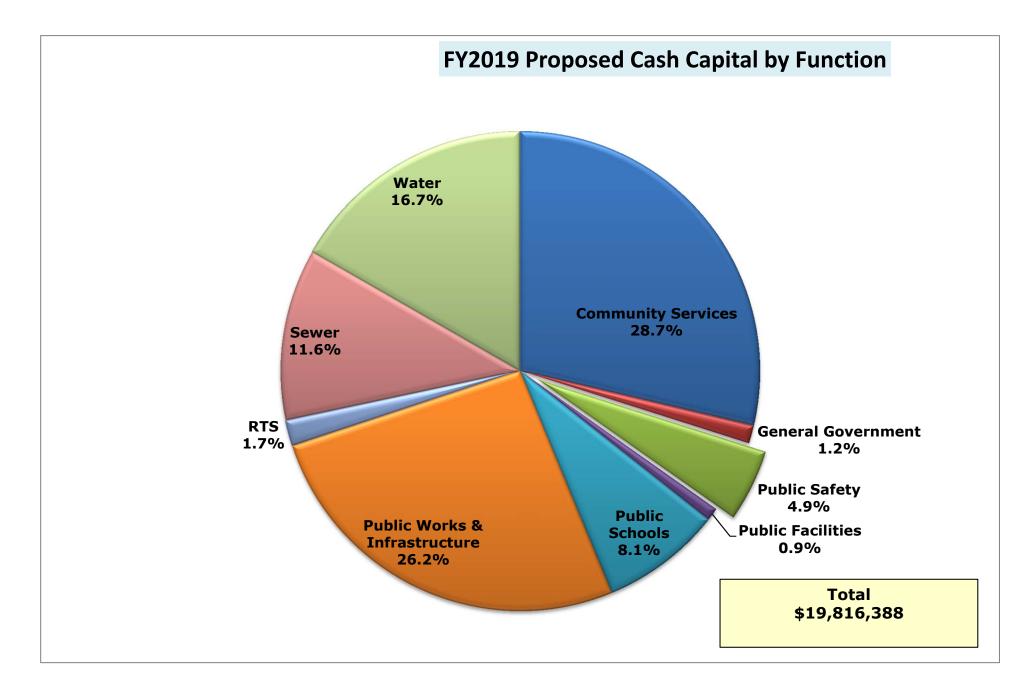
- 1 = Equipment or Technology
- 2 = Building or Facility
- 3 = Infrastructure
- 4 = Fleet

Truck Classification

- Class 1 = Smallest Pick-up Trucks 6,000 lbs.
- Class 2 = Full Size or 1/2 Ton Pick-up Trucks 6K to 10K lbs. (ex Ford F150 and F250)
- Class 3 = Heavy Duty Pick-up Trucks 10K to 14K lbs. (ex Ford F350)
- Class 4 = Medium Size Work Trucks 14K to 16K lbs. (ex Ford F450)
- Class 5 = Medium Job Trucks 16K to 19.5K lbs. (ex Ford F550)
- Class 6 = Medium to Large Trucks 19.5K to 26K (ex Ford F650)
- Class 7 = Heavy Duty Trucks 26K to 33K (ex Ford F750) Requires Class B Commercial
- Class 8 = Largest Heavy Duty Trucks 33K lbs. or more (ex 18-wheeler)







							FY2019	9 - FY2023									
Title	Code *	Function	Cat*	FY2019 Department Request	FY2019 Recommended Tier 1	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	Cash	Debt	Other	Page
Athletic Facility and Public Recreation Improvements	М	Community	3	565,000	55,000	2,880,000	2,500,000	52,500		677,000		1,102,000				2,555,000	3-040
Athletic Fields Master Plan	GM	Community	2							75,000							3-102
Boat Launch on Charles River	Ρ	Community	2														3-104
Center at the Heights Computer Lab	Ρ	Community	1			50,000	50,000							50,000			3-005
Center at the Heights Space Utilization Study	Ν	Community	2									30,000					3-069
Cricket Field Building Renovation	М	Community	2			162,000		649,000									3-106
Library Furniture Replacement	М	Community	1	43,970	43,970	112,960	112,960	82,740	82,740	83,182	83,182			322,852			3-097
Library RFID Conversion	М	Community	1					327,200									3-099
Memorial Park Buildings and Grounds Improvements	М	Community	2	5,900,000	5,900,000									1,032,000	3,068,000	1,800,000	3-119
Open Space Land Purchase	М	Community	3	1,000,000													3-113
Outdoor Basketball Courts	Ν	Community	2									125,000					3-108
Public Playgrounds	М	Community	1	300,000	300,000	400,000	400,000									700,000	3-110
Replace Unit 404 Ford E350 VAN	С	Community	4							100,240	100,240			100,240			3-019
Rosemary Lake Camp and Trail	М	Community	З	50,000	50,000	200,000	200,000									250,000	3-115
Town Common Historic Redesign and Beautification	М	Community	3			52,000	52,000	906,000	906,000							958,000	3-063
Walker Pond Improvements	Ν	Community	3														3-117
Energy Efficiency Upgrade Improvements	М	Facilities	2	71,000	71,000			200,000	200,000	100,000	100,000	100,000	100,000	471,000			3-077
Accounting and Revenue Software Package Replacement	Ρ	General	1					1,100,000	1,100,000					1,100,000			3-013
Multi-Function Printer Devices	М	General	1			35,600	35,600	35,600	35,600	35,600	35,600	35,600	35,600	142,400			3-017
Non-Public Safety Data Center Servers and Storage Units	Ρ	General	1	180,000	180,000							145,000	145,000	325,000			3-007
Permanent Message Boards	М	General	1			52,000		54,000		56,000		58,000					3-050
Replace Unit 452 Ford Taurus	С	General	4									41,034	41,034	41,034			3-019
Technology Systems and Application Updates	М	General	1									100,000	100,000	100,000			3-015

							FY2019	9 - FY2023								
	Code			FY2019	FY2019	FY2020	FY2020	FY2021	FY2021	FY2022	FY2022	FY2023	FY2023			
Title	*	Function	Cat*	Department Request	Recommended Tier 1	Cash	Debt Other	Page								
				Request		Request	Her I	Request	ilei 1	Request	HCI 1	Request	Her I			
Town Multi-Function Printer Devices	М	General	1	35,600		35,600	35,600	35,600	35,600	35,600	35,600			106,800		3-017
Town Offices Replacement Furniture	Ρ	General	1	25,000	25,000					25,000	25,000			50,000		3-003
Automated External Defibrillators Replacement	Ν	Public Safety	1									27,832	27,832	27,832		3-034
Firearm Replacement	М	Public Safety	1			31,000	31,000							31,000		3-030
Personal Protective Equipment	М	Public Safety	1	43,424	43,424	43,424	43,424	43,424	43,424	43,424	43,424	43,424	43,424	217,120		3-036
Police Cruiser Radio Replacement	М	Public Safety	1					93,351	93,351					93,351		3-028
Police Use-Of-Force Training Simulator	М	Public Safety	1	47,000	47,000									47,000		3-032
Public Safety Complex/Station #2	М	Public Safety	2	65,405,000	65,405,000										65,405,000	3-001
Public Safety Data Center Servers and Storage Units	Ρ	Public Safety	1	30,000				60,000	60,000					60,000		3-009
Public Safety Mobile Devices	Ρ	Public Safety	1	35,000	35,000	35,000	35,000							70,000		3-011
Replace Unit 400 Ford Taurus	С	Public Safety	4							38,310	38,310			38,310		3-019
Replace Unit 457 Ford Taurus	В	Public Safety	4	21,336												3-019
Replace Unit C-01 FORD EXPLORER	С	Public Safety	4					51,133	51,133					51,133		3-019
Replace Unit C-06 Ford F350	С	Public Safety	4					73,647	73,647					73,647		3-019
Replace Unit C-42 Ford Sedan	С	Public Safety	4			50,462	50,462							50,462		3-019
Replace Unit E02 E-ONE CYCLONE ii Fire Truck	L	Public Safety	4	840,163	840,163									840,163		3-019
Replace Unit HAZ HAZMAT TRAILER	L	Public Safety	4													3-019
Asa Small Field Renovation	М	Public Works	2			34,000	34,000	152,000	152,000						186,0	00 3-038
DPW Boiler Replacement 470 Dedham Avenue	М	Public Works	2	34,000		400,000										3-071
DPW Central Avenue Storage Facility	М	Public Works	2	7,900,000	7,900,000									1,382,000	3,788,000 2,730,0	00 3-043
DPW Complex	М	Public Works	2			2,950,000				35,000,000						3-045
Drain System Improvements – Water Quality (EPA)	М	Public Works	3	2,425,000	2,400,000			126,500		1,035,000					2,400,0	00 3-134
Hillcrest Radio Repeater Building Replacement	Ν	Public Works	2	136,000	136,000									136,000		3-059

						FY2019 - FY2023												
Title	Code	Function	Cat*		FY2019 Recommended		FY2020 Recommended	FY2021 Department	FY2021 Recommended		FY2022 Recommended		FY2023 Recommended	Cash	Debt	Other	Page	
				Request	Tier 1	Request	Tier 1	Request	Tier 1	Request	Tier 1	Request	Tier 1					
Public Works Infrastructure Program	М	Public Works	3	1,773,500	1,773,500	1,985,500	1,985,500	2,320,000	2,145,000	2,022,000	2,022,000	1,805,500	1,805,500	9,481,500	250,000		3-052	
Replace Unit 1 Ford Escape Hybrid	С	Public Works	4	33,616	33,616									33,616			3-019	
Replace Unit 10 INTERNATIONAL 7400 Series	L	Public Works	4			239,000	239,000							239,000			3-019	
Replace Unit 102 JOHN DEERE LOADER 544J	L	Public Works	4			181,481	181,481							181,481			3-019	
Replace Unit 107 CAMOPLAST SW4S	L	Public Works	4	190,811													3-019	
Replace Unit 108 TRACKLESS TRACTOR	х	Public Works	4									206,164	206,164	206,164			3-019	
Replace Unit 112 Prinoth	L	Public Works	4									206,618	206,618	206,618			3-019	
Replace Unit 113 CAMOPLAST SW4S	L	Public Works	4					192,880	192,880					192,880			3-019	
Replace Unit 124 ADDCO MINI UTILITY TRAILER	Ĺ	Public Works	4							26,429	26,429			26,429			3-019	
Replace Unit 168 GORMAN UTILITY TRAILER	L	Public Works	4							37,706	37,706			37,706			3-019	
Replace Unit 181 Elgin PELICAN Sweeper	L	Public Works	4	264,101	264,101									264,101			3-019	
Replace Unit 182 FREIGHTLINER ELGIN CROSSWIND SWEEPER	L	Public Works	4			302,028	302,028							302,028			3-019	
Replace Unit 183 GIANT UTILITY LEAF PICKER TRAILER	L	Public Works	4	25,722	25,722									25,722			3-019	
Replace Unit 186 GIANT LEAF VAC TRAILER	L	Public Works	4							27,275	27,275			27,275			3-019	
Replace Unit 2 Ford F150 XL	С	Public Works	4					36,000	36,000					36,000			3-019	
Replace Unit 253 VERMEER STUMP CUTTER	L	Public Works	4			54,207	54,207							54,207			3-019	
Replace Unit 256 TRAILER UTILITY	L	Public Works	4			44,005	44,005							44,005			3-019	
Replace Unit 3 Ford F450	L	Public Works	4							84,163	84,163			84,163			3-019	
Replace Unit 301 FORD E150 VAN	С	Public Works	4	34,069	34,069									34,069			3-019	
Replace Unit 32 Ford F350	CL	Public Works	4							71,137	71,137			71,137			3-019	
Replace Unit 350 JOHN DEERE TRACTOR LOADER 4720	L	Public Works	4					53,156	53,156					53,156			3-019	
Replace Unit 38 INTERNATIONAL IH 4300 Series	L	Public Works	4	202,169													3-019	
Replace Unit 39 Ford F550	L	Public Works	4			73,233	73,233							73,233			3-019	

FY2019 - FY2019 - FY2019 - FY2019 - FY2019 - FY2020 Title Code + Function FY2019 FY2019 FY2020 FY2020 FY2021 FY2022 FY2023 FY2023 Title - Function Cat* Department Recommended Department Recommended Department Recommended Department Recommended Department Recommended Cash Debt Other Page																	
Title	Code	Function	Cat*											Cach	Debt	Other	Page
The	*	Function	Cal	Request	Tier 1	Request	Tier 1	Request	Tier 1	Request	Tier 1	Request	Tier 1	Casil	Debt	Other	Fage
									1		r						-
Replace Unit 4 Ford F350	CL	Public Works	4	82,671	82,671									82,671			3-019
Replace Unit 43 Ford F350	CL	Public Works	4							71,137	71,137			71,137			3-019
Replace Unit 44 Ford Escape Hybrid	С	Public Works	4	33,616	33,616									33,616			3-019
Replace Unit 45 FORD E150 VAN	С	Public Works	4							38,467	38,467			38,467			3-019
Replace Unit 46 Ford Escape Hybrid	С	Public Works	4	33,616	33,616									33,616			3-019
Replace Unit 55 Ford F550	L	Public Works	4	142,495	142,495									142,495			3-019
Replace Unit 57 Ford F350	CL	Public Works	4			66,407	66,407							66,407			3-019
Replace Unit 65 Ford F350	CL	Public Works	4	66,037	66,037									66,037			3-019
Replace Unit 700 Ford Econ Van E250	С	Public Works	4									41,656	41,656	41,656			3-019
Replace Unit 702 Ford F250	С	Public Works	4	45,765	45,765									45,765			3-019
Replace Unit 705 Ford Econ Van E250	С	Public Works	4			37,571	37,571							37,571			3-019
Replace Unit 707 Ford Econ Van E250	С	Public Works	4					38,886	38,886					38,886			3-019
Replace Unit 712 Ford Econ Van E250	С	Public Works	4							40,247	40,247			40,247			3-019
Replace Unit 713 Ford F450 Dump Truck	L	Public Works	4														3-019
Replace Unit 756 Ford F150	С	Public Works	4							37,260	37,260			37,260			3-019
Replace Unit 76 BOBCAT A300 SKID STEER	L	Public Works	4	122,182	122,182									122,182			3-019
Replace Unit 92 FORD EXPLORER	С	Public Works	4			38,385	38,385							38,385			3-019
Specialty Equipment - Loader Mounted Snow Blower (H)	М	Public Works	1					163,000	163,000					163,000			3-048
Specialty Equipment - Unit 334 Specialty Mower (PF)	М	Public Works	1							40,000	40,000			40,000			3-048
Specialty Equipment - Unit 344 Large Specialty Mower (PF)	Μ	Public Works	1	76,500	76,500									76,500			3-048
Specialty Equipment - Unit 351 Tractor (PF)	М	Public Works	1			90,000	90,000							90,000			3-048
Streetlight Conversion to LED	Ν	Public Works	3	685,000													3-061
Traffic Improvements	Ρ	Public Works	3	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	250,000			3-065

							FY201	9 - FY2023									
Title	Code *	Function	Cat*	FY2019 Department Request	FY2019 Recommended Tier 1	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	Cash	Debt	Other	Page
				Request	TIEF 1												
Building Management System Upgrade	М	Schools	1	102,000		126,000	126,000	94,000	94,000					220,000			3-067
Emery Grover Feasibility Study Refresh	Ν	Schools	2	70,000	70,000											70,000	3-162
Emery Grover Roof Replacement	М	Schools	2					15,000		160,000							3-075
Emery Grover Window Replacement	М	Schools	2			30,000		330,000									3-073
Facility Assessment for Sustainable Building Management	MB	Schools	2	100,000													3-079
Full Day Kindergarten Space Modifications	Ρ	Schools	2			50,000											3-164
Harris Avenue Parking Lot (Pollard School)	Ν	Schools	2									25,000	25,000	25,000			3-081
High Rock School Locker Room Upgrade	Ν	Schools	2									20,000	20,000	20,000			3-083
Hillside School Boiler Upgrade	Ν	Schools	2			11,000		220,000									3-095
Mitchell Elementary School Renovation	Ρ	Schools	2														3-166
Mitchell School Bathroom Upgrades	Ν	Schools	2					60,000		600,000							3-085
Mitchell School Locker Replacement	Ν	Schools	2	70,000													3-087
Newman Preschool Playground Custom Shade Shelter	Ν	Schools	1			49,800	49,800							49,800			3-169
Pollard Blue & Green Gym Upgrades	М	Schools	2	540,000	540,000	30,000	30,000							570,000			3-091
Pollard Locker Room Retrofit	М	Schools	2					60,000	60,000	630,000	630,000			690,000			3-093
Pollard Phased Improvements Feasibility Study	М	Schools	2	65,000	65,000									65,000			3-171
Pollard School Air Conditioning Upgrade	Ν	Schools	2							100,000		550,000					3-089
Pollard School Improvements	Ρ	Schools	2														3-173
Renovate/Reconstruct Emery Grover Building at Highland Avenue Location	Ρ	Schools	2			1,605,200		13,089,300									3-177
Renovate/Reconstruct Hillside as Swing Space	Ν	Schools	2					750,000									3-159
Replace Unit Bus 1 BLUE BIRD 303 SCHOOL BUS	С	Schools	4									96,693	96,693	96,693			3-019
Replace Unit Bus 14 IC SCHOOL BUS	С	Schools	4			90,568	90,568							90,568			3-019
Replace Unit Bus 2 BLUE BIRD 303 SCHOOL BUS	С	Schools	4									96,693	96,693	96,693			3-019

							FY201	9 - FY2023									
Title	Code *	Function	Cat*	FY2019 Department Request	FY2019 Recommended Tier 1	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	Cash	Debt	Other	Page
Replace Unit Van 1 FORD E150 VAN	С	Schools	4			50,483	50,483							50,483			3-019
Replace Unit Van 10 TOYOTA SIENNA	С	Schools	4							54,079	54,079			54,079			3-019
Replace Unit Van 2 FORD E150 VAN	С	Schools	4			50,483	50,483							50,483			3-019
Replace Unit Van 4 FORD E150 VAN	С	Schools	4	48,776	48,776									48,776			3-019
Replace Unit Van 5 FORD E150 VAN	С	Schools	4	48,776	48,776									48,776			3-019
Replace Unit Van 7 FORD E250 VAN	С	Schools	4					52,250	52,250					52,250			3-019
Replace Unit Van 8 FORD E250 VAN	С	Schools	4					52,250	52,250					52,250			3-019
Replace Unit Van 9 TOYOTA SIENNA	С	Schools	4							54,079	54,079			54,079			3-019
School Copier Replacement	R	Schools	1	84,190	84,190	52,470	52,470	84,690	84,690	86,360	86,360	52,140	52,140	359,850			3-180
School Document Management System	М	Schools	1			176,900	176,900							176,900			3-187
School Furniture	R	Schools	1	60,500	60,500	45,000	45,000	25,000	25,000	25,000	25,000	25,000	25,000	180,500			3-190
School Phone System Replacement	Ν	Schools	1	88,000	319,000	114,000		117,000						319,000			3-192
School Technology Replacement	R	Schools	1	303,600	303,600	566,100	347,500	556,325	177,050	500,200		428,000		828,150			3-184
Sustain Hillside School as Swing Space for Future Use	Ρ	Schools	2					100,000		2,607,400		16,253,100					3-195
TOTAL				90,530,205	87,755,289	13,733,867	7,761,067	22,502,432	6,057,657	44,667,295	3,856,695	21,664,454	3,118,354	24,389,062	72,511,000	11,649,000	
Buildings & Facilities			2	80,291,000	80,087,000	5,272,200	64,000	15,625,300	412,000	39,272,400	730,000	17,103,100	145,000	4,391,000	72,261,000	4,786,000	
Equipment & Technology			1		1,518,184									5,247,055	. ,	700,000	
Fleet			4	2,235,921	1,821,605	1,278,313	1,278,313	550,202	550,202	680,529	680,529	688,858	688,858	5,019,507			
Infrastructure & Land			3	6,548,500	4,328,500	5,167,500	4,787,500	3,455,000	3,101,000	3,784,000	2,072,000	2,957,500	1,855,500	9,731,500	250,000	6,163,000	
TOTAL				90,530,205	87,755,289	13,733,867	7,761,067	22,502,432	6,057,657	44,667,295	3,856,695	21,664,454	3,118,354	24,389,062	72,511,000	11,649,000	

							FY2019	9 - FY2023									
Title	Code *	Function	Cat*	FY2019 Department Request	FY2019 Recommended Tier 1	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	Cash	Debt	Other	Page
RTS Enterprise																	
Replace Unit 143 CASE LOADER 721E	L	RTS	4	245,360	245,360									245,360			3-019
Replace Unit 5 INTERNATIONAL 7400 Series	L	RTS	4									264,984	264,984	264,984			3-019
Replace Unit 56 Ford F150	С	RTS	4			34,783	34,783							34,783			3-019
Replace Unit 91 CONSTRUCTION SCALP TRUCK	L	RTS	4							153,337	153,337			153,337			3-019
Big Belly Trash Cans	Ν	RTS	1	100,000	100,000									100,000			3-121
RTS Efficiency Study and Master Plan	Ν	RTS	3														3-123
Employee Trailer	Ν	RTS	2														3-125
Horizontal Grinder	М	RTS	1			750,000											3-127
RTS Property Improvements	М	RTS	2	645,000	645,000	27,000	27,000	120,000	120,000	120,000	120,000			267,000	645,000		3-129
Stormwater Plan at RTS	М	RTS	3			250,000	250,000	275,000	275,000					525,000			3-132
TOTAL				990,360	990,360	1,061,783	311,783	395,000	395,000	273,337	273,337	264,984	264,984	1,590,464	645,000		
Buildings & Facilities		RTS	2	645,000	645,000	27,000	27,000	120,000	120,000	120,000	120,000			267,000	645,000		
Equipment & Technology		RTS	1	100,000	100,000	750,000								100,000			
Fleet		RTS	4	245,360	245,360	34,783	34,783			153,337	153,337	264,984	264,984	698,464			
Infrastructure & Land		RTS	3			250,000	250,000	275,000	275,000					525,000			
TOTAL		RTS		990,360	990,360	1,061,783	311,783	395,000	395,000	273,337	273,337	264,984	264,984	1,590,464	645,000		

Five Year Capital Improvement Plan Preliminary Tier One Recommendations FY2019 - FY2023

							FY2019	9 - FY2023									
Title	Code *	Function	Cat*	FY2019 Department Request	FY2019 Recommended Tier 1	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	Cash	Debt	Other	Page
Sewer Enterprise																	
Replace Unit 101 CASE LOADER	L	Sewer	4							202,621	202,621			202,621			3-019
Replace Unit 11 FORD EXPLORER	С	Sewer	4									42,558	42,558	42,558			3-019
Replace Unit 17 Ford F550	L	Sewer	4							78,449	78,449			78,449			3-019
Replace Unit 19 INTERNATIONAL 7400 Series	L	Sewer	4							256,023	256,023			256,023			3-019
Replace Unit 23 Ford F350	С	Sewer	4					60,046	60,046					60,046			3-019
Replace Unit 28 Ford F350	С	Sewer	4	64,247	64,247									64,247			3-019
Replace Unit 29 INTERNATIONAL 7400 Series	L	Sewer	4			239,000	239,000							239,000			3-019
Replace Unit 37 INTERNATIONAL 7500 Series	L	Sewer	4							441,303	441,303			441,303			3-019
Replace Unit 94 Ford F250	С	Sewer	4	67,864	67,864									67,864			3-019
Sewer Main Extension Zone I and II	М	Sewer	3	690,000	690,000									690,000			3-136
Sewer Main Replacements	М	Sewer	3	330,000	330,000	1,950,000	500,000	9,000,000						830,000			3-138
Sewer Pump Station Improvements	М	Sewer	3			630,000	630,000			345,000	345,000	3,370,500		975,000			3-140
Sewer Service Connections	R	Sewer	3			50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	200,000			3-142
Sewer System Infiltration & Inflow Removal	М	Sewer	3	205,000	205,000	1,600,000	1,600,000							205,000	1,600,000		3-144
TOTAL				1,357,111	1,357,111	4,469,000	3,019,000	9,110,046	110,046	1,373,395	1,373,395	3,463,058	92,558	4,352,110	1,600,000		
Buildings & Facilities		Sewer	2														
Equipment & Technology		Sewer	1														
Fleet		Sewer	4	132,111	132,111	239,000	239,000	60,046	60,046	978,395	978,395	42,558	42,558	1,452,110			
Infrastructure & Land		Sewer	3	1,225,000	1,225,000	4,230,000	2,780,000	9,050,000	50,000	395,000	395,000	3,420,500	50,000	2,900,000	1,600,000		

1,357,111 1,357,111 4,469,000 3,019,000 9,110,046 110,046 1,373,395 1,373,395 3,463,058

92,558 4,352,110 1,600,000

TOTAL

Sewer

							11201) - FY2023									
Title	Code	Function	Cat*	FY2019 Department	FY2019 Recommended	FY2020 Department	FY2020 Recommended	FY2021 Department	FY2021 Recommended	FY2022 Department	FY2022 Recommended	FY2023 Department	FY2023 Recommended	Cash	Debt	Other	Page
lide	*	Function	Cat	Request	Tier 1	Casii	Debt	Other	Fage								
Water Enterprise																	
Replace Unit 14 INTERNATIONAL 7400	L	Water	4	239,404	239,404									239,404			3-019
Replace Unit 164 Trailer ATLAS Copco	L	Water	4			35,803	35,803							35,803			3-019
Replace Unit 22 Ford F450	L	Water	4	115,644	115,644									115,644			3-019
Replace Unit 25 Ford F450	L	Water	4							84,163	84,163			84,163			3-019
Replace Unit 26 Ford F150	С	Water	4					48,428	48,428					48,428			3-019
Replace Unit 27 Ford F150	С	Water	4														3-019
Replace Unit 30 Ford F550	L	Water	4							78,449	78,449			78,449			3-019
Replace Unit 31 Ford F150	С	Water	4					36,000	36,000					36,000			3-019
Replace Unit 35 INTERNATIONAL 4900	L	Water	4														3-019
Replace Unit 40 Ford F350	С	Water	4							62,148	62,148			62,148			3-019
Birds Hill Water Tank	М	Water	3	340,000	340,000									340,000			3-146
Fire Flow Improvements	М	Water	3			540,000	540,000	2,400,000	2,400,000					540,000	2,400,000		3-148
Water Distribution System Improvements	М	Water	3	830,000	830,000	4,640,000	4,640,000	390,000	390,000	100,000	100,000	460,000	460,000	1,780,000	4,640,000		3-150
Water Distribution Study	QB	Water	3									222,000	222,000	222,000			3-153
Water Service Connections	R	Water	3									200,000	200,000	200,000			3-155
Water Supply Development	М	Water	3	400,000				1,100,000									3-157
TOTAL				1,925,048	1,525,048	5,215,803	5,215,803	3,974,428	2,874,428	324,759	324,759	882,000	882,000	3,782,038	7,040,000		
Buildings & Facilities		Water	2														
Equipment & Technology		Water	1														
Fleet		Water	4	355,048	355,048	35,803	35,803	84,428	84,428	224,759	224,759			700,038			
Infrastructure & Land		Water	3	1,570,000	1,170,000	5,180,000	5,180,000	3,890,000	2,790,000	100,000	100,000	882,000	882,000	3,082,000	7,040,000		
TOTAL		Water		1,925,048	1,525,048	5,215,803	5,215,803	3,974,428	2,874,428	324,759	324,759	882,000	882,000	3,782,038	7,040,000		
Grand Total				94,802,724	91,627,808	24,480,453	16,307,653	35,981,906	9,437,131	46,638,786	5,828,186	26,274,496	4,357,896	34,113,674	81,796,000	11,649,000	

Five Year Capital Improvement Plan Preliminary Tier One Recommendations FY2019 - FY2023

								112013	112025									
- [Code			FY2019	FY2019	FY2020	FY2020	FY2021	FY2021	FY2022	FY2022	FY2023	FY2023				
	Title	*	Function	Cat* D	Department	Recommended	Cash	Debt	Other	Page								
					Request	Tier 1												

Buildings & Facilities - All	2	80,936,000	80,732,000	5,299,200	91,000	15,745,300	532,000	39,392,400	850,000	17,103,100	145,000	4,658,000	72,906,000	4,786,000
Equipment & Technology - All	1	1,554,784	1,618,184	2,765,854	1,631,254	2,871,930	1,994,455	930,366	374,166	914,996	428,996	5,347,055		700,000
Fleet - All	4	2,968,440	2,554,124	1,587,899	1,587,899	694,676	694,676	2,037,020	2,037,020	996,400	996,400	7,870,119		
Infrastructure & Land - All	3	9,343,500	6,723,500	14,827,500	12,997,500	16,670,000	6,216,000	4,279,000	2,567,000	7,260,000	2,787,500	16,238,500	8,890,000	6,163,000
TOTAL		94,802,724	91,627,808	24,480,453	16,307,653	35,981,906	9,437,131	46,638,786	5,828,186	26,274,496	4,357,896	34,113,674	81,796,000	11,649,000

Cat (Category)

4 = Fleet

1 = Equipment or Technology

2 = Building or Facility 3 = Infrastructure

Codes

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

C = Core Fleet

- $\mathsf{D}=\mathsf{Recommendation}$ is deferred or on hold pending other actions
- E = Emergency approval
- F = Funded appropriation outside the capital plan

G = Request may not qualify as capital submission

L = Specialized Fleet Equipment

I = Project submission is incomplete or waiting additional information

- M = Submission has been modified from previous submission
- N = New submission with this CIP

P = Project request has appeared in previous CIP's

Q = Request does not qualify as a capital submission

R = Request is a regularly occurring capital expense

S = No recommendation; under study

U = Urgent request based on identified conditions

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

		Cu	eral Fund Capita rrent and Prior Inding Sources	I			
Description	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Requested FY2019	Proposed FY2019
Current Year Requests						86,710,205	83,549,869
Cash Current Receipts & Free Cash Other Available Funds	5,566,941 575,000	2,667,260	2,432,606 320,305	2,729,117 302,000	5,438,467 3,888,000		9,183,869 1,855,000
Total - Cash	6,141,941	2,667,260	2,752,911	3,031,117	9,326,467		11,038,869
Debt Within the Annual Levy Limit Excluded from the Levy Limit	3,958,000	1,700,000	5,100,000 7,000,000	500,000 58,305,000	18,825,000		7,106,000 65,405,000
Total - Debt	3,958,000	1,700,000	12,100,000	58,805,000	18,825,000		72,511,000
Total	10,099,941	4,367,260	14,852,911	61,836,117	28,151,467	86,710,205	83,549,869

			C	Curr	al Fund Capi ent and Pric ding Source	or						
Description	Funded		Funded	an	Funded		Funded	Funded		Requested	Proposed	
	FY2014		FY2015		FY2016		FY2017	FY2018		FY2019	FY2019	
100kW Portable Generator	61,250	G										
Athletic Facility and Public Recreation Improvements (Claxton Field Lighting)								 		510,000		
Athletic Facility and Public Recreation Improvements (Design for Turf Replacement)										55,000	55,000	5
Building Management System Upgrade										102,000	102,000	(
Central Avenue/Elliot Street Bridge			900,000	D	2,000,000	D						
Defibrillators	27,500	G										
DPW Boiler Replacement 470 Dedham Avenue										34,000	34,000	(
DPW Central Avenue Storage Facility									G	7,900,000	5,170,000	D
DPW/Public Services Administration Building Location Feasibility Study					40,000	А						
Drain System Improvements – Water Quality			80,000	G				 				
Drain System Repairs			76,000	G								
Election Equipment	85,000											
Emery Grover School Administration Fank					73,000	А						
Energy Efficiency Upgrade Improvements	113,078	G			96,323	G	38,154	57,000		71,000	71,000	(
Facilities Maintenance Program	465,750		482,000									
Facility Assessment for Sustainable Building Management										100,000		
Fire Alarm Cables			60,000	G								

			C	Curre	l Fund Capi nt and Prio ing Sources	r							
Description	Funded FY2014		Funded FY2015		Funded FY2016	-	Funded FY2017		Funded FY2018		Requested FY2019	Proposed FY2019	
Firefighting Protective Gear									167,872	G			
Fleet - Ambulance (Fire)									224,677	G			
Fleet - Ambulance (Fire)			186,607	G									
Fleet - Brush Truck C6 (Fire)	49,200												
Fleet - Delivery Van (School)									33,861				
Fleet - Dump Truck 10 Wheel Heavy Class 8 Unit 49 (Highway)					269,930	G							
Fleet - Dump Truck 10 Wheel Unit 47 (Highway)							223,109	G					
Fleet - Dump Truck 6 Wheel Heavy Class 8 Unit 6 (Highway)	178,400	G											
Fleet - Dump Truck 6 Wheel Heavy Class 8 Unit 7 (Highway)					219,746								
Fleet - Dump Truck 6 Wheel Unit 66 (Highway)	78,300	G											
Fleet - Dump Truck 6 Wheel Unit 70 (Parks)							68,364	G					
Fleet - Dump Truck 6 Wheel Unit 71 (Parks)							68,364	G					
Fleet - Dump Truck 6 Wheel Unit 72 (Parks)	78,400	G											
Fleet - Dump Truck 6 Wheel Unit 73 (Parks)					78,296	G							
Fleet - Dump Truck 6 Wheel Unit 75 (Parks)					78,296	G							
Fleet - Dump Truck 6 Wheel with Hook Lift Unit 74 (Parks)					104,102	G							
Fleet - Fire Engine E2 (Fire)											840,163	840,163	

			С	urrer	Fund Capita It and Prior Ig Sources	I					
Description	Funded		Funded		Funded	Funded	Funded		Requested	Proposed	
	FY2014		FY2015		FY2016	FY2017	FY2018		FY2019	FY2019	
Fleet - Passenger Vehicle Electric Unit 453 (Building)			30,830				 				
Fleet - Passenger Vehicle Electric Unit 455 (Building)			30,830	G			 				
(Admin)									33,616	33,616	
(Admin)							35,481				
Fleet - Passenger Vehicle Unit 43 (Fire)						35,123					
Fleet - Passenger Vehicle Unit 44 (Engineering)									33,616	33,616	G
Fleet - Passenger Vehicle Unit 454 (Building)	22,521	G					 				
Fleet - Passenger Vehicle Unit 456	22,521	G									
(Building) Fleet - Passenger Vehicle Unit 457 (Building)									21,336		
Fleet - Passenger Vehicle Unit 46									33,616	33,616	G
(Engineering) Fleet - Passenger Vehicle Unit 52 (Highway)							34,729	G			
Fleet - Pick Truck Unit 65 (Parks)	51,900										
Fleet - Pickup Truck 4WD Unit 50 (Parks)			50,723	G							
Fleet - Pickup Truck Unit 12 (Parks)							38,277				
Fleet - Pickup Truck Unit 41 (Parks)			50,187				 				
Fleet - Pickup with Cab Unit 701 (Carpenter)	33,600										
Fleet - Sidewalk Tractor Plow Unit 106 (Highway)					152,912	i					

			Cu	eral Fund Capi urrent and Pric unding Source	or							
Description	Funded		Funded	Funded		Funded		Funded		Requested	Proposed	
	FY2014		FY2015	FY2016		FY2017		FY2018		FY2019	FY2019	
Fleet - Sidewalk Tractor Plow Unit 107 (Highway)										190,811	190,811	G
Fleet - Sidewalk Tractor Plow Unit 116 (Highway)	169,300	G										
Fleet - Sidewalk Tractor Plow Unit 117 (Highway) Fleet - Skid Steer Loader Unit 76												
(Highway)										122,182	122,182	G
Fleet - Snow and Ice Equipment Material Spreaders (Highway)	41,000	G										
Fleet - SUV Emergency Response Unit 2 (Fire)						56,635	G					
Fleet - SUV Emergency Response Unit 3 (Fire)						46,116	G					
Fleet - Street Sweeper Unit 181 (Highway)										264,101	264,101	G
Fleet - Tractor Mower Unit 336 (Parks)								98,747	G			
Fleet - Trailer Large Unit 183 (Parks)										25,722	25,722	G
Fleet - Transport Van Unit 3 (School)								32,875	G			
Fleet - Transport Van Unit 4 (School)										48,776	48,776	G
Fleet - Transport Van Unit 404 (HHS Aging Services)						87,354						
Fleet - Transport Van Unit 5 (School)										48,776	48,776	G
Fleet - Transport Van Unit 6 (School)								32,875				
Fleet - Utility Trailer Portable Messenger Board Unit 120 (Highway)						23,031						
Fleet - Work Truck Class 2 Unit 702 (Building Mainteance)										45,765	45,765	G

		Cu	eral Fund Cap rrent and Pric Inding Source	or							
Description	Funded FY2014	Funded FY2015	Funded FY2016		Funded FY2017		Funded FY2018		Requested FY2019	Proposed FY2019	
Fleet - Work Truck Class 3 Unit 4 (Fleet)									82,671	82,671	G
Fleet - Work Truck Class 3 Unit 65									66,037	66,037	G
Fleet - Work Truck Class 5 Unit 55									142,495	142,495	G
Fleet - Work Truck Class 6 Unit 38									202,169	202,169	G
Fleet - Work Van Unit 301 (Parks)									34,069	34,069	G
Fleet - Work Van Unit 703 (HVAC)		27,346	G								
Fleet - Work Van Unit 704 (Building Maintenance)							31,222	G			
Fleet - Work Van Unit 706 (Glazier)					35,073						
Fleet - Work Van Unit 708 (Delivery)			28,049								
Fleet -Utility Truck Unit 48 (Highway)							83,561				
Fuel Island Relocation and Upgrade					131,000	G	1,056,000	G			
Fuel System Software/Hardware Upgrade			94,500	G							
Geographic Information System		100,000									
High School A Gym Upgrade					130,557						
High School Chiller							125,000				
High School Classroom Expansion & Other Improvements							14,138,000	ADS			
High School Classroom Expansion Alternatives Feasibility Study					65,000	G					

			C	Curr	al Fund Capi ent and Pric ding Source	r							
Description	Funded FY2014		Funded FY2015		Funded FY2016		Funded FY2017		Funded FY2018		Requested FY2019	Proposed FY2019	
High School Expansion Options					150,000	A							
High School Radio System	37,275	G											
High School Reconfiguration Work			200,000	G									
Hillcrest Radio Repeater Building Replacement											136,000	136,000	G
Hillside (Williams) Feasibility & Design	650,000	G			45,000								
Library Furniture Replacement											43,970	43,970	G
Mail Processing Machines					30,645	G							
Memorial Park Buildings and Grounds Improvements							50,000	G	375,000	G		5,900,000	DGS
Mitchell School Locker Replacement											70,000	70,000	G
Mitchell School Modular Classrooms	2,729,276	G											
Mobile Column Lifts					73,500								
Needham High School Cafeteria Expansion					2,100,000	D							
Network Hardware, Servers & Switches	30,000	G	30,000	G	30,000	G							
Non-Public Safety Data Center Servers and Storage Units									145,000	G	180,000	180,000	G
Personal Protective Equipment											43,424	43,424	G
Police Station Underground Storage Tank Removal	28,500	G											
Police Use-Of-Force Training Simulator											47,000	47,000	G

			C	Curr	al Fund Cap ent and Pric ding Source	or							
Description	Funded FY2014		Funded FY2015		Funded FY2016		Funded FY2017		Funded FY2018		Requested FY2019	Proposed FY2019	
Pollard Bathroom Upgrades									650,000	0			
Pollard Blue & Green Gym Upgrades									45,000	G	540,000	540,000	Ģ
Pollard Boiler Replacement	800,000	D											
Pollard Locker Replacement							41,157	G					
Pollard Phased Improvements Feasibility Study Pollard Telephone System Replacement	53,000	G									65,000	65,000	G
Property Acquisition (609 Central Avenue) Property Acquisition (66-70 Chestnut Street)	1,533,000	DR					762,500	X					
Property Acquisition (Owens Farm & Abutting Properties)					7,000,000	х							
Public Safety Complex/Station #2 Projects Public Safety Computer Aided Dispatch					50,000	OA	90,000	0	4,000,000	D*0	65,405,000	65,405,000	
System Public Safety Data Center Servers and Storage Units			244,615	G							30,000		
Public Safety Mobile Devices											35,000	35,000	(
Public Works Garage Bay	1,100,000	D											
Public Works Garage Vehicle Service Lift	110,000	G											
Public Works Infrastructure Program	600,000	D	800,000	D	1,453,500	DG	1,700,000	DG	1,762,000	G	1,773,500	1,773,500	D
Public Works Large Format Scanner			33,000	G									

			C	Curr	al Fund Cap ent and Pric ding Source	or							
Description	Funded FY2014		Funded FY2015		Funded FY2016		Funded FY2017		Funded FY2018		Requested FY2019	Proposed FY2019	
Public Works Small Specialty Equipment	130,800	G	29,797	G									
Public Works Two-Way Radios	47,700	G											
Rosemary Complex									3,800,000	DO			
School 1:1 Initiative	145,000	0	127,725	G									
School Fitness Equipment Replacement	14,380		14,810										
School Furniture & Musical Equipment	56,600	G	49,180	G	45,405	G	45,000	G	45,000	G	60,500	60,500	G
School Graphic Arts Equipment	8,270	G	8,350	G									
School Interactive Whiteboard Technology			24,600	G									
School Phone System Replacement											88,000	319,000	G
School Photocopier Replacement	59,620		30,320		62,740		39,330		46,790		84,190	84,190	G
School Postage and Folding Machines			9,340	G									
School Technology Innovation			25,000	G									
School Technology Replacement	488,800	G	502,000	G	403,000	G	307,750	G	463,500	G	303,600	303,600	G
Specialty Equipment - Unit 344 Large Mower											76,500	76,500	G
Specialty Equipment Field Renovator (Parks)									30,000	G			
Streetlight Conversion to LED											685,000	685,000	G
Town Hall Stair Modifications									200,000	G			

		Cur	ral Fund Capita rent and Prior Iding Sources						
Description	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017		Funded FY2018	Requested FY2019	Proposed FY2019	
Town Multi-Function Printer Devices							 35,600	35,600	(
Town Offices Replacement Furniture							25,000	25,000	
Traffic Improvements						249,000	50,000	50,000	
Water Quality Improvements (Wildwood Drive Pond Analysis)							25,000	25,000	
Williams Elementary School				57,542,500	х				
Williams Elementary School Outside Play Area				250,000	А				
Wireless Master Fire Box System		164,000 G							

A = Transfer from another Financial Warrant Article
B = Operating Budget
C = CPA Fund Cash
D = Debt
E = Enterprise Fund Cash
G = General Fund Cash
0 = Overlay Surplus
R = Retained Earnings
S = Stabilization Fund
T = CPA General Reserve
1 = Community Housing Reserve
2 = Historic Reserve
3 = Open Space Reserve
4 = CPA Free Cash

X = Excluded Debt

		Ċı	Preservation Fu Irrent and Prior Inding Sources				
Description	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Requested FY2019	Proposed FY2019
Current Year Requests						7,521,800	2,820,000
Cash Current Receipts & State Match Other Available Funds	433,000	268,219	3,417,000	978,000	1,030,000 4,075,000		2,820,000
Total - Cash	433,000	268,219	3,417,000	978,000	5,105,000		2,820,000
Debt CPA Surcharge Supported					8,000,000		
Total - Debt					8,000,000		
Total	433,000	268,219	3,417,000	978,000	13,105,000	7,521,800	2,820,000

		C	Ó	Curi	eservation rent and Pri	or	d Capital					
Description	Funded FY2014		Funded FY2015		Funded FY2016		Funded FY2017		Funded FY2018		Requested FY2019	Proposed FY2019
Athletic Facility and Public Recreation Improvements (Cricket Field)									35,000			
Boat Launch Design					30,000							
Emery Grover Feasibility Study Refresh+											70,000	70,000
Memorial Park Buildings and Grounds Improvements+			35.000	т			310.000	4			3,701,800	TBI
Mills Field Improvements	40,000	3			510,000	4						
Newman Preschool Playground Surfacing	60.000	т										
Newman School Fields Renovation					1,527,000							
Open Space Purchase											1,000,000	
Public Playgrounds+											300,000	300,000
Rail Trail Improvements Ridge Hill Reservation Footbridge Repairs			213,219	3								
Rosemary Complex									12,000,000			
Rosemary Lake Camp and Trail+											50,000	50,000
Rosemary Lake Sediment Removal+							118,000					2,400,000
Town Common Historic Redesign			20 000	з								
Trail Improvement Project - Needham Reservoir	05,000	5							000,000	4		
Trail Improvement Project - Newman Eastman	248,000	Т			800,000	4						

Community Preservation Fund Capital Current and Prior

Funding Sources

Description	Funded	Funded	Funded	Funded	Funded	Requested	Proposed
	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2019
Williams Elamantes Cabaal Walliam							

Williams Elementary School Walking	210.000 4
Trails	

Notes

+ Subject to approval by the Community Preservation Committee

Funding Source

- A = Transfer from another Financial Warrant Article
- B = Operating Budget
- C = CPA Fund Cash
- D = Debt
- E = Enterprise Fund Cash
- G = General Fund Cash
- O = Overlay Surplus
- R = Retained Earnings
- S = Stabilization Fund
- T = CPA General Reserve
- 1 = Community Housing Reserve
- 2 = Historic Reserve
- 3 = Open Space Reserve
- 4 = CPA Free Cash
- X = Excluded Debt

		Curre	orise Fund Cap nt and Prior ing Sources	pital			
Description	Funded	Funded	Funded	Funded	Funded	Requested	Proposed
	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2019
Current Year Requests						990,360	990,360
Cash Current Receipts & Retained Earnings Other Available Funds	108,100 144,000	321,095		215,927 22,073	725,342		345,360
Total - Cash	252,100	321,095		238,000	725,342		345,360
Debt Fee Supported	324,400			269,000			645,000
Total - Debt	324,400			269,000			645,000
Total	576,500	321,095		507,000	725,342	990,360	990,360

			Cur	rent a	e Fund Caj and Prior Sources	pital						
Description	Funded		Funded		Funded	Funded		Funded		Requested	Proposed	
	FY2014		FY2015		FY2016	FY2017		FY2018		FY2019	FY2019	
Big Belly Trash Cans										100,000	100,000	R
Fleet - Collection Packer Unit 80								211,256	R			
Fleet - Front End Loader Unit 104						269,000	D					
Fleet - Front End Loader Unit 143										245,360	245,360	R
Fleet - Grinder Unit 67								43,086	R			
Fleet - Semi Tractor Unit 42	218,100	AR										
Fleet - Swap Loader Truck Unit 5						120,000	R					
Fleet - Trommel Screener Unit 93			215,316									
Fuel Island Relocation and Upgrade								15,000	R			
Message Board			30,000	R								
RTS Property Improvements						68,000	AR	290,000	R	645,000	645,000	D
RTS Stormwater Plan						50,000	R					
Transfer Station Floor Replacement								166,000	R			
Transfer Station Office Trailer			75,779	R								
Waste Containers	34,000	А										
Waste Handler	324,400	D										

_				ise Fund Ca t and Prior ng Sources				
ſ	Description	Funded	Funded	Funded	Funded	Funded	Requested	Proposed
		FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2019

Funding Source	
A = Transfer from another Financial Warrant Article	
B = Operating Budget	
C = CPA Fund Cash	
D = Debt	
E = Enterprise Fund Cash	
G = General Fund Cash	
O = Overlay Surplus	
R = Retained Earnings	
S = Stabilization Fund	
T = CPA General Reserve	
1 = Community Housing Reserve	
2 = Historic Reserve	
3 = Open Space Reserve	
4 = CPA Free Cash	
X = Excluded Debt	

		(Enterprise Fund Ca Current and Prior Funding Sources	apital			
Description	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Requested FY2019	Proposed FY2019
Current Year Requests						1,357,111	2,301,111
Cash Current Receipts & Retained Earnings Other Available Funds	647,900	398,000	554,357 116,143	63,525 10,335	87,000		2,301,111
Total - Cash	647,900	398,000	670,500	73,860	87,000		2,301,111
Debt Fee Supported					600,000		
Total - Debt					600,000		
Total	647,900	398,000	670,500	73,860	687,000	1,357,111	2,301,111

Sewer Enterprise Fund Capital Current and Prior

			Fur	nding Sourc	es							
Description	Funded FY2014	Funded FY2015		Funded FY2016		Funded FY2017		Funded FY2018		Requested FY2019	Proposed FY2019	
DPW Central Avenue Storage Facility										Refer to General	944,000	R
Fleet - Work Truck Class 2b Unit 94										67,864	67,864	R
Fleet - Work Truck Class 3 Unit 28										64,247	64,247	R
Fleet - Utility Truck Unit 94	47,900	R										
Fuel Island Relocation and Upgrade								87,000	R			
Sewer Main Extension Zone I and II						73,860	AR			690,000	690,000	R
Sewer Main Replacements										330,000	330,000	R
Sewer Pump Station (Alden Road)								600,000	D			
Sewer Pump Station Improvements (Reservoir A)				550,000	AR							
Sewer Pump Station Improvements (West Street)		90,000	R									
Sewer SCADA System		258,000	R									
Sewer Service Connections		50,000		50,000	R							
Sewer System Infiltration & Inflow Removal Program	600,000	R								205,000	205,000	R
Specialty Equipment Sewer Easement Machine to Clean Sewer Lines				70,500	R							
Funding Source A = Transfer from another Financial Wa B = Operating Budget C = CPA Fund Cash D = Debt E = Enterprise Fund Cash	rrant Article											

G = General Fund Cash

Sewer Enterprise Fund Capital Current and Prior

۰.			F	unung source	5			
	Description	Funded	Funded	Funded	Funded	Funded	Requested	Proposed
		FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2019
1								

0 = Overlay Surplus
R = Retained Earnings
S = Stabilization Fund
T = CPA General Reserve
1 = Community Housing Reserve
2 = Historic Reserve
3 = Open Space Reserve
4 = CPA Free Cash
X = Excluded Debt

		Curi	erprise Fund Cap rent and Prior Iding Sources	bital			
Description	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Requested FY2019	Proposed FY2019
Current Year Requests						1,925,048	3,311,048
Cash Current Receipts & Retained Earnings Other Available Funds	1,563,100	729,050	980,179 181,925	345,679	433,074		3,311,048
Total - Cash	1,563,100	729,050	1,162,104	345,679	433,074		3,311,048
Debt Fee Supported	5,565,100		635,000		2,300,000		
Total - Debt	5,565,100		635,000		2,300,000		
Total	7,128,200	729,050	1,797,104	345,679	2,733,074	1,925,048	3,311,048

Water Enterprise Fund Capital Current and Prior

			F	undir	ng Sources								
Description	Funded FY2014		Funded FY2015		Funded FY2016		Funded FY2017		Funded FY2018		Requested FY2019	Proposed FY2019	
Birds Hill Water Tank											340,000	340,000	R
DPW Central Avenue Storage Facility											Refer to General Fund	1,786,000	R
Filter Media Replacement	115,000	R	238,050	R									
Fire Flow Improvement Study							20,000	R					
Fleet - Heavy Duty Truck Class 7 Unit 14											239,404	239,404	R
Fleet - Medium Work Truck Class 4 Unit 22											115,644	115,644	R
Fleet - Pickup Truck Unit 21					41,604	R							
Fleet - Pickup Truck Unit 26							43,679	R					
Fleet - SUV Hybrid Unit 20									34,729	R			
Fleet - Tractor Excavator Unit 115									132,000	R			
Fleet - Trailer Unit 160	57,300	R											
Fleet - Van Unit 24									29,345	R			
Fuel Island Relocation and Upgrade									162,000	R			
Irrigation Supply Facility Design	80,000	R											
Mobile Record Keeping Devices GIS					35,000	R							
SCADA System Upgrade	435,000												
St Mary's Pump Station	5,565,100	D											

Water Enterprise Fund Capital Current and Prior Funding Sources

				unun	ig sources								
Description	Funded		Funded		Funded		Funded		Funded		Requested	Proposed	
	FY2014		FY2015		FY2016		FY2017		FY2018		FY2019	FY2019	
Trail Improvement Project - Needham									75,000	D			
Reservoir									75,000	~~~~			
Water Distribution System											830,000	830,000	R
Improvements													
Water Service Connections	160,000	R	200,000	R	200,000	R	200,000	R	1,000,000	D			
	, ,		, ,		, ,		, 		·····				
Water Supply Development											400,000		
Water Supply Development			200,000	R	700,000	R							
													•••••
Water System Rehabilitation Program									1,300,000	D			
							02 000	n					
Water System Rehabilitation Program							82,000	R					
Water System Rehabilitation Program			91,000	P	820,500								
					020,500								
Water System Rehabilitation Program	715,800	R											
	, _0,000												
Founding Courses													
Funding Source	want Articla												
A = Transfer from another Financial War	rant Article												
B = Operating Budget													
C = CPA Fund Cash													
D = Debt													
E = Enterprise Fund Cash													
G = General Fund Cash													
O = Overlay Surplus													
R = Retained Earnings													
S = Stabilization Fund													
T = CPA General Reserve													
1 = Community Housing Reserve													
2 = Historic Reserve													
3 = Open Space Reserve													
4 = CPA Free Cash													
X = Excluded Debt													

			All Capital Funding So				
Description	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Requested FY2019	Proposed FY2019
Current Year Requests						94,802,724	92,972,388
Cash							
Cash	5,566,941	2,667,260	2,432,606	2,729,117	6,468,467		9,183,869
Retained Earnings		1,448,145	1,534,536				5,957,519
Other Available Funds	1,152,000	268,219	4,035,373		7,963,000		4,675,000
Fotal - Cash	9,038,041	4,383,624	8,002,515	4,666,656	15,676,883		19,816,388
Debt							
Operating Revenues	9,847,500	1,700,000	5,735,000	769,000	21,725,000		7,751,00
CPA Surcharge					8,000,000		
Debt Excluded			7,000,000	58,305,000			65,405,00
Fotal - Debt	9,847,500	1,700,000	12,735,000	59,074,000	29,725,000		73,156,000
Total	18,885,541	6 083 624	20 737 515	63,740,656	45 401 883	94,802,724	92,972,388

Debt Service to Revenue
Issued, Authorized and Proposed
FY2019 - FY2023

Description	2018	2019	2020	2021	2022	2023
Revenue						
General Fund Within the Levy *	\$146,959,701	\$153,016,108	\$159,758,460	\$167,173,818	\$173.421.791	\$179.916.953
General Fund Excluded from Levy **	\$7,019,086					
CPA Revenue	\$2,681,539					
RTS Revenue	\$1,219,607					
Sewer Revenue	\$8,520,415					
Water Revenue	\$5,845,584					
Total Revenue	\$172,245,932	\$180,500,223	\$188,313,957	\$197,230,829	\$205,361,281	\$212,446,772
Debt Service						
General Debt (Table I)	\$4,362,022		\$5,368,853	\$6,048,548	\$5,669,739	\$5,236,444
CPA Debt (Table II)	\$449,163	\$441,494	\$1,195,525	\$1,425,150	\$1,249,716	\$1,214,58
RTS Debt (Table III)	\$150,000	\$150,000	\$178,750	\$181,710	\$171,700	\$160,69
Sewer Debt (Table IV)	\$1,500,000	\$1,500,000	\$596,117	\$821,006	\$803,373	\$785,69
Water Debt (Table V)	\$1,550,000	\$1,550,000	\$1,550,000	\$1,549,544	\$1,548,256	\$1,549,57
Gross Excluded Debt (Table VI)	\$7,762,773	\$9,872,526	\$11,629,015	\$12,710,235	\$14,425,818	\$14,844,71
Total Debt Service	\$15,773,958	\$18,104,504	\$20,518,260	\$22,736,192	\$23,868,601	\$23,791,69
Total Debt Service to Total Revenue	9.2%	10.0%	10.9%	11.5%	11.6%	11.2%
Total Debt Service to Total Revenue (less MSBA) **	8.8%	9.7%	10.6%	11.2%	11.3%	10.9%
General Debt Service to General Revenue	3.0%	3.0%	3.4%	3.6%	3.3%	2.9%

* General Fund revenue is based on the FY2019 - FY2023 ProForma

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

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

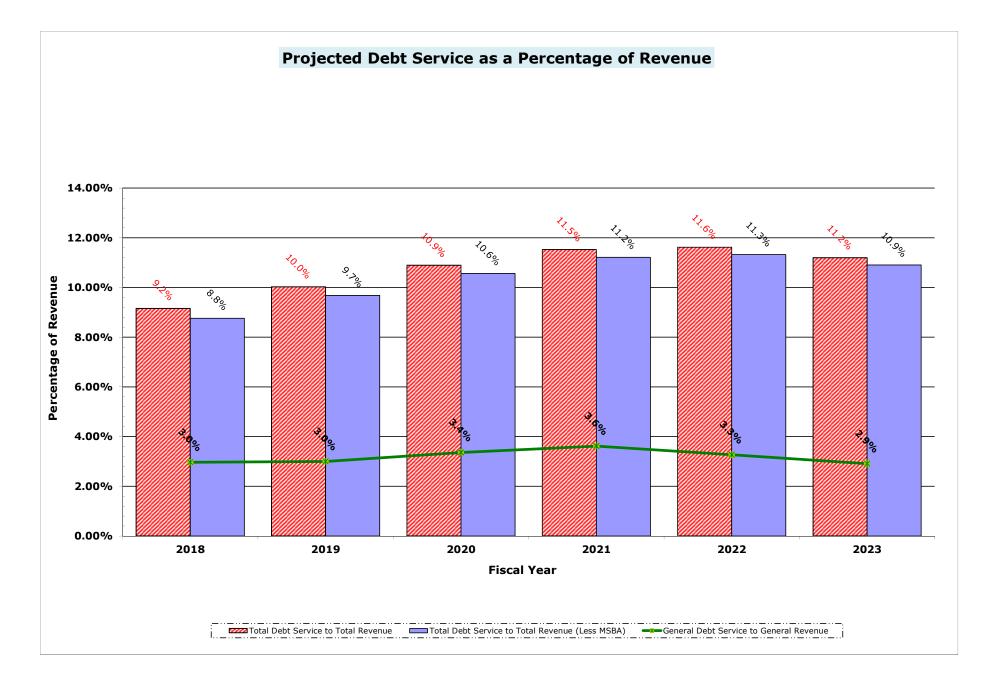


Table IGeneral Fund Capital ProjectsProposed Funding by DebtFY2019

	Budget		Estimat	<mark>ed Debt Servic</mark> e	Schedule	
Project	2018	2019	2020	2021	2022	2023
General Fund Within the Levy						
Public Works Infrastructure Program (2019)			\$67,500	\$64,000	\$60,500	\$57,000
Memorial Park Building and Grounds Improvements (2019)			\$107,380	\$527,760	\$502,850	\$481,150
DPW Seasonal Storage Facility (2019)			\$132,580	\$523,160	\$502,100	\$484,250
Projected New General Fund Debt Service#			\$307,460	\$1,114,920	\$1,065,450	\$1,022,400
General Fund Debt Authorized & Issued (refer to schedule) Authorized Not Yet Issued & Short Term Proposed	\$2,962,171 \$1,399,851	\$2,522,886 \$2,067,597	\$2,080,968 \$2,980,425 \$307,460	\$2,980,250	\$1,751,439 \$2,852,850 \$1,065,450	
Total General Fund Debt Service Within the Levy	\$4,362,022	\$4,590,483	\$5,368,853	\$6,048,548	\$5,669,739	\$5,236,444
General Fund Within the Levy Revenue *	\$146,959,701	\$153,016,108	\$159,758,460	\$167,173,818	\$173,421,791	\$179,916,953
Debt Service % of General Fund Revenue [^]	3.0%	3.0%	3.4%	3.6%	3.3%	2.9%

^ Funding from the Debt Service Stabilization Fund is anticipated to pay the debt expense that is above the three percent measure.

Table II CPA Capital Projects Proposed Funding by Debt FY2019

	Budget		Estimated Debt Service Schedule							
Project	2018	2019	2020	2021	2022	2023				
CPA Fund Debt										
No New Authorizations Proposed for FY2019										
Projected New CPA Fund Debt Service										
CPA Fund Debt Authorized & Issued Authorized Not Yet Issued & Short Term Proposed	\$449,163 \$1	\$441,494 \$0	\$430,525 \$765,000	\$416,675 \$1,008,475	\$405,041 \$844,675	\$395,256 \$819,325				
Total CPA Fund Debt Service	\$449,163	\$441,494	\$1,195,525	\$1,425,150	\$1,249,716	\$1,214,581				

Table IIIRecycling & Solid Waste Disposal Capital ProjectsProposed Funding by DebtFY2019

	Budget		Estimated	Debt Service S	chedule	
Project	2018	2019	2020	2021	2022	2023
Recycling & Solid Waste Disposal Ente	<u>rprise (RTS)</u>					
RTS Property Improvement (2019)			\$137,150	\$181,710	\$171,700	\$160,690
Projected New RTS Debt Service			\$137,150	\$181,710	\$171,700	\$160,690
RTS Enterprise Fund Debt						
Authorized & Issued (refer to schedule) Authorized Not Yet Issued & Short Term	\$143,654 \$6,346	\$58,800 \$91,200	\$41,600			
Proposed		+- -/- ••	\$137,150	\$181,710	\$171,700	\$160,690
Total RTS Debt Service	\$150,000	\$150,000	\$178,750	\$181,710	\$171,700	\$160,690

Table IVSewer Fund Capital ProjectsProposed Funding by DebtFY2019

	Budget		Estimated	Debt Service S	chedule	
Project	2018	2019	2020	2021	2022	2023
Sewer Enterprise						
No New Authorizations Proposed						
for FY2019 Sewer System Inflow & Infiltration Removal (2020)				\$272,000	\$260,800	\$249,600
Projected New Sewer Debt Service				\$272,000	\$260,800	\$249,600
Sewer Enterprise Fund Debt						
Authorized & Issued (refer to schedule)	\$1,025,700	\$953,472	\$549,917	\$505,256	\$501,273	\$497,241
Authorized Not Yet Issued & Short Term	\$474,300	\$546,528	\$46,200	\$43,750	\$41,300	\$38,850
Proposed				\$272,000	\$260,800	\$249,600
Total Sewer Debt Service	\$1,500,000	\$1,500,000	\$596,117	\$821,006	\$803,373	\$785,691

		Table V ter Fund Capita oposed Funding FY2019							
	Budget	Estimated Debt Service Schedule							
Project	2018	2019	2020	2021	2022	2023			
Water Enterprise									
No New Authorizations Proposed for FY2019									
Water Pressure Improvements (2021)					\$84,000	\$146,000			
Water Main Replacement Project (2020)				\$517,400	\$469,963	\$452,100			
Projected New Water Debt Service				\$517,400	\$553,963	\$598,100			
Water Enterprise Fund Debt									
Authorized & Issued (refer to schedule)	\$1,291,376	\$1,104,550	\$557,731	\$533,994	\$520,994	\$503,022			
Authorized Not Yet Issued & Short Term	\$258,624	\$445,450	\$992,269	\$498,150	\$473,300	\$448,450			
Proposed				\$517,400	\$553,963	\$598,100			
Total Water Debt Service	\$1,550,000	\$1,550,000	\$1,550,000	\$1,549,544	\$1,548,256	\$1,549,572			

Table VICapital ProjectsProposed Funding by Debt ExclusionFY2019

	Budget		Estimate	ed Debt Service	Schedule	
Project	2018	2019	2020	2021	2022	2023
General Fund Debt Excluded						
Public Safety Buildings (2019) - Series One			\$950,000	\$929,000	\$908,000	\$887,000
Public Safety Buildings (2019) - Series Two				\$350,000	\$2,100,000	\$2,300,000
Public Safety Buildings (2019) - Series Three				\$350,000	\$700,000	\$1,294,175
Projected New General Fund Debt Service Excluded			\$950,000	\$1,629,000	\$3,708,000	\$4,481,175
General Fund Debt Excluded						
Authorized & Issued (refer to schedule) Authorized Not Yet Issued & Short Term Proposed	\$7,160,884 \$601,889	\$6,930,914 \$2,941,613	\$6,467,365 \$4,211,650 \$950,000	\$5,377,585 \$5,703,650 \$1,629,000	\$5,196,868 \$5,520,950 \$3,708,000	\$5,025,288 \$5,338,250 \$4,481,175
Total General Fund Excluded Debt Service	\$7,762,773	\$9,872,526	\$11,629,015	\$12,710,235	\$14,425,818	\$14,844,713
Projected SBA Payments/Other Adjustments	\$743,687	\$695,148	\$695,148	\$695,148	\$695,148	\$695,148
Net General Fund Excluded Debt Service *	\$7,019,086	\$9,177,378	\$10,933,867	\$12,015,087	\$13,730,670	\$14,149,565

* Before other offsets and credits

Previously Approved Debt Funded Capital Open Authorizations Balances Not Yet Issued

Approved	Project	Town Meeting	Art	Authorized	Balance
2008	Sewer System Rehabilitation I/I Work	16-May-07	45	\$1,806,800	\$59,159
2014	St Mary's Pumping Station	13-May-13	47	\$5,565,100	\$135,000
2015	Central Avenue/Elliot Street Bridge	12-May-14	39	\$900,000	\$440,000
2016	Central Avenue/Elliot Street Bridge	11-May-15	43	\$2,000,000	\$440,000
2016	Water System Rehabilitation Program	11-May-15	47	\$635,000	\$307,000
2016	High School Cafeteria Construction	02-Nov-15	11	\$2,100,000	\$85,000
2017	RTS Front-End Loader	02-May-16	46	\$269,000	\$6,000
2017	Property Acquisition - 609 Central Avenue	09-May-16	7	\$762,500	\$32,500
2017	Public Works Infrastructure Program	11-May-16	44	\$500,000	\$340,000
2017	Central Avenue Elementary School	05-Oct-16	2	\$57,542,500	\$56,542,500
2018	Water Service Connections	01-May-17	50	\$1,000,000	\$1,000,000
2018	Water Distribution System Improvements	01-May-17	51	\$1,300,000	\$1,300,000
2018	Rosemary Recreational Complex - CPA	08-May-17	33	\$8,000,000	\$8,000,000
2018	Rosemary Recreational Complex - GF	08-May-17	33	\$3,000,000	\$3,000,000
2017	High School Expansion Design	10-May-17	43	\$950,000	\$950,000
2018	Wastewater System Rehabilitation	10-May-17	48	\$600,000	\$600,000
2017	Public Safety Building & Station 2 Design	02-Oct-17	11	\$3,750,000	\$3,750,000
2017	High School Expansion Construction	02-Oct-17	13	\$11,125,000	\$11,125,000
Total				\$101,805,900	\$88,112,159

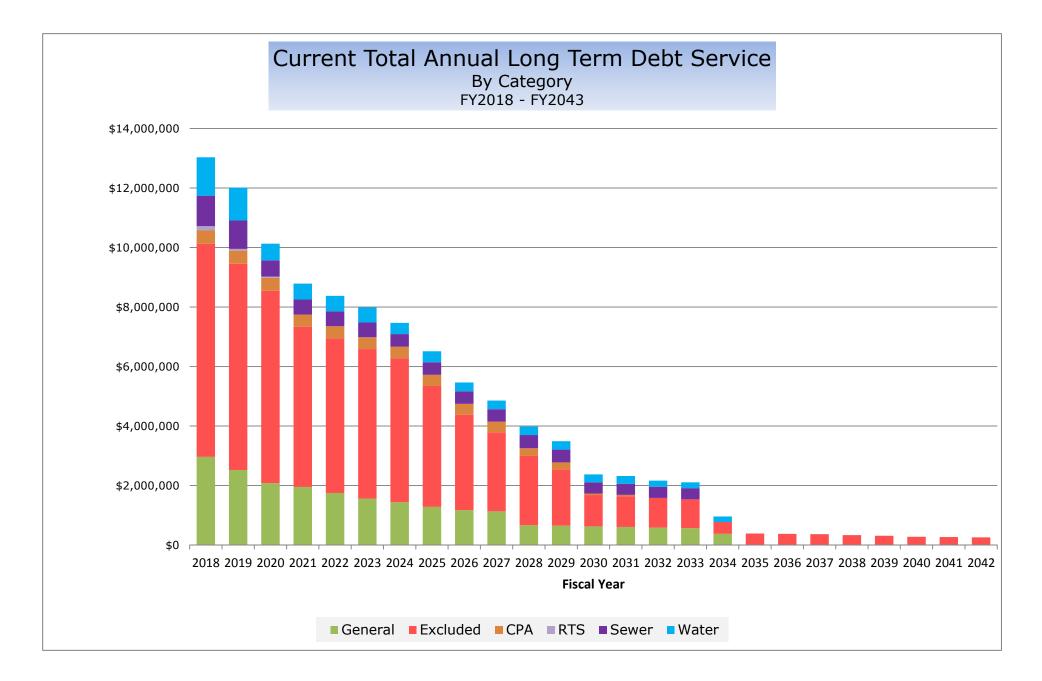
The above projects are in various stages of completion and therefore the amount and timing of each Note and Bond issue has not yet been determined. The debt retirement will be structured to fit within the proposed budget allocation shown in the debt tables.

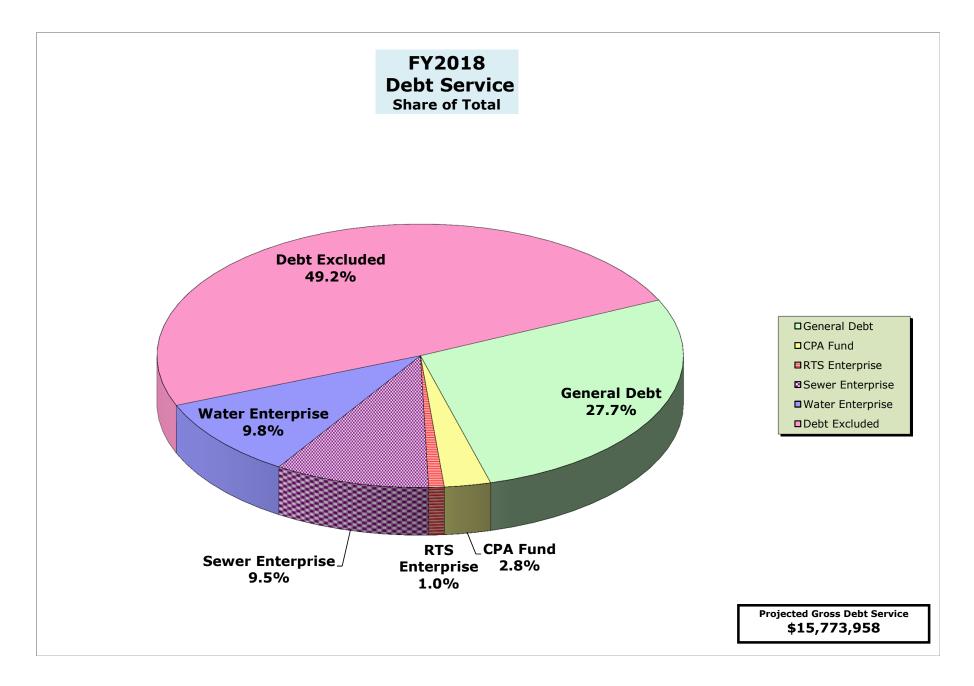
Town of Needham Current Long Term Debt Service Obligations Inclusive of the January 17, 2017 Bond Issue

Fiscal Year	General	Excluded	СРА	RTS	Sewer	Water	Total
2018	\$2,962,170.81	\$7,160,884.30	\$449,162.50	\$143,654.44	\$1,025,700.33	\$1,291,376.31	\$13,032,948.69
2019	\$2,522,886.17	\$6,930,913.75	\$441,493.75	\$58,800.00	\$953,472.34	\$1,104,549.64	\$12,012,115.65
2020	\$2,080,968.22	\$6,467,365.00	\$430,525.00	\$41,600.00	\$549,916.96	\$557,731.18	\$10,128,106.36
2021	\$1,953,377.52	\$5,377,585.00	\$416,675.00		\$505,256.32	\$533,993.60	\$8,786,887.44
2022	\$1,751,438.77	\$5,196,867.50	\$405,040.63		\$501,272.93	\$520,993.56	\$8,375,613.39
2023	\$1,563,593.77	\$5,025,287.50	\$395,256.26		\$497,240.95	\$503,022.42	\$7,984,400.90
2024	\$1,437,680.02	\$4,843,295.00	\$384,906.26		\$424,559.50	\$377,413.08	\$7,467,853.86
2025	\$1,282,977.52	\$4,062,835.00	\$374,762.51		\$423,230.66	\$368,595.41	\$6,512,401.10
2026	\$1,172,002.52	\$3,208,210.00	\$364,681.26		\$421,802.39	\$296,002.26	\$5,462,698.43
2027	\$1,132,584.39	\$2,659,650.00	\$354,306.26		\$420,276.63	\$289,632.26	\$4,856,449.54
2028	\$667,601.26	\$2,327,367.50	\$259,996.88		\$443,252.24	\$283,785.00	\$3,982,002.88
2029	\$649,915.64	\$1,885,768.75	\$241,637.50		\$430,929.00	\$283,288.06	\$3,491,538.95
2030	\$626,611.27	\$1,053,907.50	\$51,812.50		\$374,907.65	\$267,663.04	\$2,374,901.96
2031	\$607,438.76	\$1,027,148.75	\$50,625.00		\$374,987.84	\$261,387.51	\$2,321,587.86
2032	\$587,577.50	\$996,697.50			\$375,070.14	\$206,775.00	\$2,166,120.14
2033	\$567,080.00	\$969,613.76			\$375,154.05	\$195,650.00	\$2,107,497.81
2034	\$377,800.00	\$397,856.26				\$184,600.00	\$960,256.26
2035		\$387,943.76					\$387,943.76
2036		\$377,650.00					\$377,650.00
2037		\$366,975.00					\$366,975.00

Town of Needham Current Long Term Debt Service Obligations Inclusive of the January 17, 2017 Bond Issue

Fiscal Year	General	Excluded	СРА	RTS	Sewer	Water	Total
2038		\$334,775.00					\$334,775.00
2039		\$313,375.00					\$313,375.00
2040		\$278,750.00					\$278,750.00
2041		\$270,000.00					\$270,000.00
2042		\$260,000.00					\$260,000.00
2043							





WN OF NEEDHAM SCHEDULE O	F ISSUED	LONG 1	FERM DEBT SE	RVICE		DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*	2018	2019	2020	2021	2022	2023	2024 - 2028	After 2028
Central Ave & Elliot Street Bridge Construction	May-15	43	\$500,000	Jan-27	4.00%	69,889	68,000	66,000	64,000	62,000	60,000	220,000	
Central Ave & Elliot Street Bridge Design	May-14	39	\$250,000	Nov-18	3.67%	66,250	63,750						
DPW Garage Bays	May-13	42	\$800,000	May-24	2.09%	91,600	90,000	88,400	86,800	85,200	83,600	82,000	
High School Cafeteria Construction	Nov-15	11	\$1,500,000	Jan-27	4.00%	209,667	204,000	198,000	192,000	186,000	180,000	660,000	
Kendrick Street Bridge Repair	May-10	35	\$750,000	Aug-21	2.21%	82,688	81,188	79,594	77,813	75,938			
MWPAT 98-92 (Stormwater)	May-98	7	\$364,979	Aug-19	(see note)	31,149	29,874	28,567					
Pollard School Boiler Replacement	May-13	40	\$95,000	May-18	2.00%	20,400							
Pollard School Boiler Replacement	May-13	40	\$565,000	Jul-21	3.22%	80,150	78,050	75,950	73,500	71,050			
Pollard School Roof Replacement	Nov-10	10	\$725,000	Jul-22	3.67%	90,125	82,600	79,800	77,000	74,200	71,400		
Property Acquisition - 37-39 Lincoln Street	May-12	31	\$25,000	May-18	2.00%	5,100							
Property Acquisition - 37-39 Lincoln Street	May-12	31	\$605,000	Nov-32	3.39%	45,750	44,550	43,350	42,300	41,400	40,500	188,963	164,138
Property Acquisition - 51 Lincoln Street	Nov-12	17	\$150,000	May-18	2.00%	35,700							
Property Acquisition - 51 Lincoln Street	Nov-12	17	\$950,000	Nov-32	3.39%	74,575	72,575	70,575	68,825	67,325	65,825	283,444	246,206
Property Acquisition - 59 Lincoln & 89 School Streets	May-12	8	\$117,500	May-18	2.00%	25,500							
Property Acquisition - 59 Lincoln & 89 School Streets	May-12	8	\$1,005,000	Nov-32	3.39%	76,250	74,250	72,250	70,500	69,000	67,500	314,938	273,563
Property Acquisition - 66 - 70 Chestnut Street	Nov-13	22	\$1,330,000	Nov-33	3.35%	110,950	108,150	105,350	102,550	99,750	96,950	443,275	457,800

OWN OF NEEDHAM SCHEDULE	OF ISSUED	LONG	TERM DEBT SE	RVICE		DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*	2018	2019	2020	2021	2022	2023	2024 - 2028	After 2028
Property Acquisition 59 Lincoln Street & 89 School Street	May-12	8	\$52,500	Jul-32	2.93%	4,210	4,105	3,985	3,865	3,745	3,625	13,893	10,695
Public Services Administration Building	Oct-08	5	\$100,000	Jul-22	3.69%	12,150	11,800	11,400	11,000	10,600	10,200		
Public Services Administration Building (Series I)	Oct-08	5	\$4,000,000	Aug-26	3.16%	312,525	306,225	299,325	292,125	284,625	276,825	946,388	
Public Services Administration Building (Series II)	Oct-08	5	\$1,000,000	Dec-24	3.07%	82,356	80,488	78,538	86,438	84,094	81,563	155,250	
Public Works Infrastructure Program	May-10	36	\$306,500	Jul-17	2.72%	10,150							
Public Works Infrastructure Program	May-11	39	\$600,000	Jul-17	2.82%	121,800							
Public Works Infrastructure Program	May-13	41	\$100,000	May-18	2.00%	25,500							
Public Works Infrastructure Program	May-12	33	\$210,000	May-18	2.00%	51,000							
Public Works Infrastructure Program	May-10	36	\$129,000	May-18	2.00%	30,600						·	
Public Works Infrastructure Program	May-11	39	\$150,000	May-18	2.00%	35,700							
Public Works Infrastructure Program	May-12	33	\$190,000	Nov-18	3.67%	50,350	48,450						
Public Works Infrastructure Program	May-13	41	\$500,000	Nov-18	3.60%	132,500	127,500						
Public Works Infrastructure Program	May-14	38	\$580,000	Nov-18	3.67%	153,700	147,900						
Public Works Infrastructure Program	May-15	42	\$750,000	Jan-21	4.00%	229,833	222,000	214,000	156,000				
Senior Center (Series I)	Nov-11	14	\$1,000,000	Nov-32	3.38%	75,506	73,506	71,506	69,756	68,256	66,756	311,219	251,291
Senior Center (Series II)	Nov-11	14	\$5,050,000	Jul-33	3.54%	398,575	390,925	383,275	374,350	365,425	357,775	1,642,444	1,676,406

WN OF NEEDHAM SCHEDUL Project	E OF ISSUED TM Vote		TERM DEBT SE Amount Issued	RVICE Final Maturity	Average Rate*	DEBT SERVICE 2018	DEBT SERVICE 2019	DEBT SERVICE 2020	DEBT SERVICE 2021	DEBT SERVICE 2022	DEBT SERVICE 2023	DEBT SERVICE 2024 - 2028	DEBT SERVIC
			Issued	Maturity	Kale*								
Senior Center (Series III)	Nov-11	14	\$1,050,500	May-34	2.83%	78,200	77,100	76,000	74,900	73,800	72,700	324,925	336,32
Street & Traffic Light Improvements	May-08	42	\$25,000	Nov-17	3.34%	5,100							
Title V Loans	May-97	64	\$85,894	Aug-19	(see note)	5,391	5,120	4,854					
Town Hall	May-09	35	\$385,000	Aug-26	2.63%	31,281	30,781	30,250	29,656	29,031	28,375	106,109	
TOTAL GENERAL FUND						2,962,171	2,522,886	2,080,968	1,953,378	1,751,439	1,563,594	5,692,846	3,416,423
Broadmeadow School	May-00	31	\$8,400,000	Nov-23	3.00%	828,300	801,325	771,225	741,425	708,700	678,000	642,600	
Eliot School	May-00	32	\$2,562,000	Nov-24	3.94%	346,840	314,400	304,400	294,400	284,400	269,500	509,600	
High Rock & Pollard School Projects	May-07	41	\$429,470	Aug-26	4.00%	80,760	78,285	75,660	68,360	66,160	63,960	212,010	
High Rock & Pollard School Projects (Series III)	May-07	41	\$2,253,010	Aug-27	4.00%	370,216	358,623	342,460	327,160	312,060	297,160	1,298,110	
High Rock & Pollard School Projects (Series IV)	May-07	41	\$10,500,000	Aug-28	3.35%	772,600	758,031	742,075	720,500	703,313	685,438	3,129,500	561,000
High Rock School Design	Nov-06	9	\$187,770	Aug-26	4.00%	33,965	32,934	31,840	30,840	29,840	28,840	89,790	
High School (Series IIA)	May-03	31	\$2,991,900	Aug-24	4.00%	682,050	660,188	602,700	582,900	558,200	538,600	1,008,800	
High School (Series IIB)	Feb-05	1	\$782,850	Aug-26	4.00%	142,565	138,234	128,740	124,740	115,840	112,040	408,690	
High School (Series III)	Feb-05	1	\$3,850,000	Jun-28	3.42%	275,450	267,450	259,450	253,450	247,200	240,450	1,001,000	
High School Series 1	May-03	31	\$4,775,000	Nov-25	3.97%	674,300	653,700	589,000	560,400	542,000	523,600	1,441,400	
Library Project	May-03	30	\$6,510,000	Dec-19	3.00%	870,550	830,475	796,775					

OWN OF NEEDHAM SCHEDULE	OF ISSUED		FERM DEBT SE	RVICE		DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*	2018	2019	2020	2021	2022	2023	2024 - 2028	After 2028
Newman School Extraordinary Repairs (Series I)	Nov-09	14	\$1,000,000	Dec-19	2.62%	107,375	104,500	101,500					
Newman School Extraordinary Repairs (Series III)	Nov-09	14	\$5,000,000	Oct-28	3.35%	389,700	383,750	373,600	359,600	348,925	341,050	1,570,325	244,800
Newman School Extraordinary Repairs (Series IV)	Nov-09	14	\$9,000,000	Jul-32	2.82%	662,240	646,420	628,340	610,260	592,180	574,100	2,659,420	2,384,480
Newman School Extraordinary Repairs (Series V)	Nov-09	14	\$2,200,000	Nov-32	3.39%	167,750	163,350	158,950	155,100	151,800	148,500	692,863	601,838
Owens Farm Land Purchase	Nov-15	13	\$7,000,000	Jan-42	3.70%	613,428	600,900	516,900	505,700	494,500	483,300	2,248,500	4,794,500
Property Acquisition - 609 Central Street	May-16	7	\$730,000	Jan-39	3.68%	142,795	138,350	43,750	42,750	41,750	40,750	188,750	333,844
TOTAL GENERAL FUND EXCLUDE	Ð					7,160,884	6,930,914	6,467,365	5,377,585	5,196,868	5,025,288	17,101,358	8,920,461
Town Hall (Series II)	May-09	35	\$3,500,000	Oct-28	3.36%	272,113	267,969	260,900	251,150	243,716	238,231	1,097,191	188,700
Town Hall (Series III)	May-09	35	\$1,225,000	Aug-26	2.63%	100,100	98,500	96,800	94,900	92,900	90,800	339,550	
Town Hall (Series IV)	May-09	35	\$970,000	Jul-30	2.80%	76,950	75,025	72,825	70,625	68,425	66,225	301,913	155,375
TOTAL COMMUNITY PRESERVAT	ION FUND					449,163	441,494	430,525	416,675	405,041	395,256	1,738,653	344,075
Front-End Loader	May-16	46	\$205,000	Jan-20	4.00%	118,154	58,800	41,600					
Soil Remediation	Nov-12	16	\$140,000	Nov-17	3.31%	25,500							
TOTAL RTS ENTERPRISE						143,654	58,800	41,600					
MWPAT 97-13	Oct-96	8	\$67,700	Aug-18	(see note)	6,107	6,150						
MWPAT 97-33	Oct-96	7	\$180,300	Aug-18	(see note)	16,208	16,195						

WN OF NEEDHAM SCHEDULE C	DF ISSUED	LONG 1	TERM DEBT SE	RVICE		DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*	2018	2019	2020	2021	2022	2023	2024 - 2028	After 2028
MWPAT 97-63	May-97	46	\$1,019,778	Aug-18	(see note)	91,683	91,840						
MWPAT 98-10	May-97	42	\$130,200	Aug-18	(see note)	11,683	11,685						
Sewer - West Street Force Main	May-98	59	\$568,400	May-19	3.98%	70,233	67,600						
Sewer - West Street Pumping Station	May-98	58	\$1,252,300	May-19	3.98%	149,269	147,680						
Sewer Pump Station Design Reservoir B	May-09	54	\$90,000	Jul-17	2.79%	15,225							
Sewer Pump Station GPA	May-05	49	\$500,000	Jun-19	3.17%	54,000	52,000						
Sewer Pump Station GPA	May-08	45	\$550,000	Aug-28	3.36%	41,225	40,438	39,575	33,750	32,969	32,156	161,950	35,700
Sewer Pump Station Reservoir B	Nov-11	15	\$6,034,290	Jan-33	2.15%	374,066	374,129	374,192	374,256	374,323	374,391	1,873,021	1,874,949
Sewer Pump Station Reservoir B	Nov-11	15	\$78,491	Jan-18	2.15%	40,520							
Sewer Rehabilitation - Rte. 128 Area	Nov-05	9	\$145,000	Dec-19	2.59%	15,956	15,525	10,150					
Sewer Rehabilitation - Rte. 128 Area	Nov-05	9	\$500,000	Nov-22	4.00%	118,000	109,100	105,300	77,000	74,200	71,400		
Sewer Rehabilitation - Rte. 128 Area	Nov-05	9	\$320,000	Aug-28	3.39%	21,525	21,131	20,700	20,250	19,781	19,294	98,150	20,400
TOTAL SEWER ENTERPRISE						1,025,700	953,472	549,917	505,256	501,273	497,241	2,133,121	1,931,049
MWPAT Water DWS-08-24	May-08	47	\$765,335	Jul-30	2.00%	49,289	49,230	49,169	49,106	49,044	48,979	243,878	145,464
St Mary's Pump Station	May-13	47	\$1,700,000	Nov-33	3.36%	142,350	138,750	135,150	131,550	127,950	124,350	568,425	577,100
St Mary's Pump Station	May-13	47	\$1,995,000	May-34	2.85%	144,775	142,775	140,775	138,775	136,775	134,775	638,725	666,600

WN OF NEEDHAM SCHEDULE	OF ISSUED	LONG 1	FERM DEBT SE	RVICE		DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVIC
Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*	2018	2019	2020	2021	2022	2023	2024 - 2028	After 2028
Water Distribution System Improvements	May-09	56	\$400,000	Dec-24	3.02%	31,031	30,313	29,563	28,813	28,031	27,188	51,750	
Water Main Improvements	May-08	47	\$400,000	Nov-20	3.95%	52,000	50,400	48,800	47,200	45,600	44,000	83,200	
Water Service Connections	May-06	70	\$55,000	Aug-19	2.51%	5,350	5,219	5,075					
Water Storage Tank Rehabilitation	May-08	48	\$655,000	Jun-19	3.16%	70,200	67,600						
Water System Rehabilitation	May-15	47	\$260,000	Jan-20	4.00%	210,342	32,400	31,200					
Water System Rehabilitation - Rte. 128 Area	May-06	71	\$212,000	Jun-19	3.16%	21,600	20,800						
Water System Rehabilitation - Rte. 128 Area	May-06	71	\$638,000	Nov-22	4.00%	116,660	114,900	111,100	131,800	127,000	117,300		
Water System Rehabilitation - Rte. 128 Area	May-06	71	\$100,000	Aug-28	3.41%	7,175	7,044	6,900	6,750	6,594	6,431	29,450	10,200
Water Treatment Facility	May-96	47	\$1,710,000	May-19	3.98%	201,393	204,360						
Water Treatment Facility	Nov-97	18	\$1,994,300	May-19	3.98%	239,211	240,760						
TOTAL WATER ENTERPRISE						1,291,376	1,104,550	557,731	533,994	520,994	503,022	1,615,428	1,399,364
TOTAL DEBT SERVICE						13,032,948	12,012,116	10,128,106	8,786,887	8,375,613	7,984,401	28,281,406	16,011,372

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

* Rate reflects the average coupon rate over the life of the loan.

Project Submissions

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Sustain Hillside School as Swing Space for Future Use	Public Schools	Public Schools	3 -195

				Capital Proj	ect Request					
Project Title:	Police/Fire Stati	on						Fiscal Year:		2019
Purpose:	Construction		Classification: Bu	ilding		Status:	Amended Re	quest from the Prior	· CIP	
Department:	Police					Supports:	Public Safety			
Partners:	Public Facilities, B	uilding Department, Fi	ire/police, IT			Useful Life:	More than tw	venty-five (25) years		
				Parameters					<u>R</u>	<u>esponse</u>
			stall, implement, or of			h are NOT includ	ed is this request?		Yes	
2. Are there recor	mmendations or cost	ts identified by other o	departments which are	e NOT factored ir	to the request?				Yes	
		tting by any Town or S							Yes	
			nmunicated with ITC, a						Yes	
5. If this request i	s for Building Improv	ements, has the Depa	rtment communicated	d with the Buildir	ng Maintenance (Bl	M) division, and	does BM support	the request?	No	
5. If funded, will a	additional permanen	t staff be required?					Total New FT	'E's: 2.5	Yes	
			to cover operating ex	penses?					Yes	
		e requesting Departme							No	
			n vendors at an additi	onal expense to t	he Town which is I	NOT already bud	geted?		No	
LO. If the project	is NOT funded, will c	urrent Town revenue	be reduced?						No	
1. Is specialized	training or annual lic	ensing required that t	he Town will need to p	bay in order to us	e the asset?				Yes	
2. Is this a proje	ct for which an Initia	l Eligibility Project App	lication can be filed w	ith the Communi	ty Preservation Co	mmittee (CPC)?			No	
 Is this a reque 	st in response to a C	ourt, Federal, or State	order?						No	
14. Is this a reque	st in response to a d	ocumented public hea	alth or safety condition	ו?					No	
5. Is this a reque	st to improve or mal	ke repairs to extend th	ne useful life of a build	ing?					No	
L6. Is this a reque	st to purchase appar	ratus/equipment that	is intended to be perm	nanently installed	l at the location of	its use?			No	
7. Is this a reque	st to repair or other	wise improve public p	roperty which is NOT a	a building or infra	structure?				No	
L8. Will any othe	r department be requ	uired to provide assist	ance in order to comp	lete the project?					Yes	
19. If funded, will	this project increase	e the operating expense	se for any other depart	tment?					Yes	
Project Cost:	\$65,405,000	How was the Project	t Cost Determined:		Hired Consultant				-	
Budget Impact:		ual operating expense	s by more than \$100,0	000						
	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
Planning/Feasibili	ty	\$0								
Design/Engineerii	ng	\$5,528,000	\$5,528,000							
and/ROW Acqui	sition	\$0								
ite Preparation		\$4,123,889	\$4,123,889							
Construction		\$48,776,111	\$48,776,111							
Construction Mar	nagement	\$0								
quipment		\$810,000	\$810,000							
urniture, Fixture	s, and Equipment	\$1,050,000	\$1,050,000							
echnology Hard	ware/Software	\$4,785,000	\$4,785,000							
		6222.000	\$332,000							
Other Expenses		\$332,000	3352,000							

\$0

Project Title: Police/Fire Station

Capital Project Request

Project Description and Considerations

The Public Safety Building, located at the intersection of Chestnut Street and School Street, opened in 1931, and was renovated in 1988-1989. Fire Station #2, located at the intersection of Highland Avenue and Webster Street, opened in 1949 and was also renovated in 1988-1989. The amount of space that was originally allocated within both buildings for the Police and Fire Departments is no longer sufficient to accommodate changes in operations, changing personnel needs, technology upgrades, and security improvements, and neither station is fully accessible for individuals with limited mobility.

In 1950, 19 years after the station opened, the Police Department had 25 sworn officers and responded to 1,774 calls. By 2015, the number of sworn officers was 49 and call volume had increased to 31,610. The proposed program meets many deficiencies identified in the Police Department, including the lack of adequate locker facilities for female officers, evidence and property storage, interview rooms and interview recording technology, public meeting space, records storage, dispatch areas, patrol and administrative office space, and report writing space. The prisoner holding cells are outdated and inadequate, and the current prisoner booking area is unsafe due to its size and configuration. The building lacks the ability to handle technology improvements due to available space needed, while the roof continues to leak into the records/server room on the second floor. The current climate control only works sporadically throughout the building creating numerous temperature variations.

In 1950, the Fire Department had 27 firefighters. Call volume data is not available for 1950, but the Department responded to 600 calls in 1960. By 2015, the number of sworn firefighters was 64 and the Department responded to 3,915 calls. The proposed program meets many deficiencies identified in the Fire Department, including apparatus bays that are too small for modern fire trucks, insufficient area for performing equipment maintenance and repair, lack of facilities for storing and cleaning turnout gear, minimal existing office space, inadequate facilities for firefighter support such as bunkrooms, toilets and showers, and insufficient storage space for files and equipment.

The November 2, 2015 and February 10, 2016 Special Town Meetings and the 2017 Annual Town Meeting approved a total of \$390,000 in funding for feasibility studies and schematic design. If the appropriation for design development is approved, the project will be presented to the fall, 2018 Special Town Meeting for construction appropriation, and to the voters at the November 6, 2018 State election for debt exclusion funding.

- 1. If approved, land acquisition near Station 1 will be funded through available mitigation funds.
- 2. Building maintenance costs, IT licensing fees, and Townwide expenses.
- 3. Building, Planning and other related approvals will be needed.

4. ITC supports the request.

- 6. 2.5 Custodians will need to be added to the staff to meet the maintenance needs of the new complex and Fire Station 2.
- 7. There will be increase costs associated with the use of the building.
- 11. Elevator certification.

Fiscal Year:

2019

				Capital Proje	ct Request					
Project Title:	Town Offices R	eplacement Furniture						Fiscal Year:	2019	9
urpose:	Acquisition	Cla	ssification: Ec	quipment	S	tatus:	Same Request from	the Prior CIP		
epartment:	Town Manager				S	upports:	General Governmen	t		
artners:					L	seful Life:	More than five (5) y	ears		
				Parameters					<u>Respon</u>	nse
. Are there any co	osts to bid, design,	construct, purchase, insta	all, implement, or o	therwise complete	the project which a	re NOT include	ed is this request?		No	
. Are there recom	nmendations or co	sts identified by other dep	partments which ar	e NOT factored int	o the request?				No	
. Does this projec	ct require any perm	nitting by any Town or Sta	ite agency?						No	
		as the Department comm							No	
. If this request is	for Building Impro	vements, has the Depart	ment communicate	ed with the Building	g Maintenance (BM)	division, and o	loes BM support the rec	juest?	No	
. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:		No	
. If funded, will th	he operating budge	t need to be increased to	cover operating ex	(penses?					No	
		e requesting Department							No	
. If funded, will th	his project require	ongoing assistance from v	endors at an addit	ional expense to th	e Town which is NO	T already budg	eted?		No	
0. If the project is	s NOT funded, will	current Town revenue be	reduced?						No	
1. Is specialized t	raining or annual li	censing required that the	Town will need to	pay in order to use	the asset?				No	
Is this a project	t for which an Initia	al Eligibility Project Applic	ation can be filed v	vith the Communit	y Preservation Com	mittee (CPC)?			No	
3. Is this a reques	st in response to a	Court, Federal, or State o	rder?						No	
4. Is this a reques	st in response to a	documented public healtl	n or safety conditio	n?					No	
		ake repairs to extend the							No	
6. Is this a reques	st to purchase appa	aratus/equipment that is i	intended to be perr	manently installed	at the location of its	use?			No	
		rwise improve public prop			tructure?				No	
.8. Will any other	department be rec	quired to provide assistan	ce in order to comp	plete the project?					No	
		e the operating expense							No	
roject Cost:	\$50,000	How was the Project C			n-House Estimate					
udget Impact:		on the annual operating	expenses less than	\$5,000						
	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025	5
lanning/Feasibilit		\$0								
esign/Engineerin	•	\$0								
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
onstruction	_	\$0								
onstruction Man	agement	\$0								
quipment		\$0	Ac			.				
	s, and Equipment	\$50,000	\$25,000			\$25 <i>,</i> 0	000			
echnology Hardw	vare/Software	\$0								
ther Expenses		\$0								
OTAL		\$50,000	\$25,000	\$0	\$0	\$25,0	00 \$0		\$0	

	Capital Pro	oject Request	
t Title:	Town Offices Replacement Furniture	Fiscal Year:	2019
	Project Descriptio	n and Considerations	

Town Hall was renovated with new furniture when it re-opened in September, 2011. In FY2022, the furniture will be 10 years old and will need to start to be replaced, where applicable due to heavy wear and tear.

Project

The Public Services Administration Building was opened as a new building with new furniture in February, 2010. In FY2022, the furniture will be 12 years old and the more worn and broken furniture will need to start to be replaced.

A furniture inventory, including current condition, has been done for the Town Hall and for the Public Services Administration Building and will be updated annually. It has been attached to this request.

In Fiscal Year 2019, furniture scheduled to be replaced would be the Town Hall's Board of Selectmen's conference table and chairs (to go around table) and as much of the poor and fair conditioned furniture as already established from the Public Services Administration Building.

In Fiscal Year 2022, furniture to be replaced will be as much of the stated "poorer condition" furniture as budget request would allow. Depending upon the condition of the furniture in out-lying years, this request may be repeated either annually or every other year.

FYI - replacement furniture prices at 2018 pricing: office task chairs \$830 each. 3 drawer regular file cabinets \$725 each. 15' wooden conference table \$8-10K, conference chairs \$350 each, sled chairs in Powers Hall \$700 each.

			Capital Projec	t Request				
Project Title:	Center At The Height	s Computer Lab Hardware /	Software Replacemer	nt			Fiscal Year:	2020
Purpose:	Acquisition	Classification:	Technology		Status:	Same Request fr	om the Prior CIP	
epartment:	Finance				Funding Source:	General Fund		
artners:								
			Parameters					Respon
. Are there any	costs to bid, design, constru	uct, purchase, install, implement	t, or otherwise complete	the project wh	nich are NOT include	d is this request?		No
. Are there reco	ommendations or costs ider	ntified by other departments wh	ich are NOT factored int	o the request?				No
. Does the proje	ect support activities to pro	duce new revenue for the Town	?					No
. Does this proje	ect require any permitting b	by any Town or State agency?						No
. If funded, will	additional permanent staff	be required?						No
. If funded, will	the operating budget need	to be increased to cover operat	ing expenses?					No
,		perating expense for any other d						No
. If funded, will	this project lower the requ	esting Department's operating c	osts?					No
	· · · · · ·	g assistance from vendors at an	additional expense to th	e Town which i	is NOT already budge	eted?		No
1 7	,	t Town revenue be reduced?						No
		g required that the Town will ne						No
Is this a proje	ect for which an Initial Eligib	pility Project Application can be f	filed with the Community	y Preservation	Committee (CPC)?			No
	est in response to a Court, I	·						No
		ented public health or safety co						No
		airs to extend the useful life of a						No
		equipment that is intended to b			of its use?			No
		mprove public property which is	Ŭ	tructure?				No
		to provide assistance in order to	complete the project?					No
•		duled replacement						
	imated Project Cost Determ		ce in the second se		Estimated Project	Cost:	\$50,000	
Iseful Life:		but less than eight (8) years						
udget Impact:		e annual operating expenses less	s than \$5,000					
otal New FTE's:	0							
	Project Budget Elements		Project Budget	2020	2021	2022	2023	2024
lanning/Feasibi			\$0					
esign/Engineer	0		\$0					
and/ROW Acqu	isition		\$0					

				\$0	
\$0	\$0	\$50,000	\$50,000	TOTAL	\$50,000
			\$0	Other Expenses	
		\$50,000	\$50,000	Technology Hardware/Software	\$50,000
			\$0	Furniture, Fixtures, and Equipment	
			\$0	Equipment	
			\$0	Construction Management	
			\$0	Construction	
			\$0	Site Preparation	
			\$0	Land/ROW Acquisition	
			\$0	Design/Engineering	
			¢Ω	Design/Engineering	

	Capital Project Request		
Project Title:	Center At The Heights Computer Lab Hardware / Software Replacement	Fiscal Year:	2020
	Project Description and Considerations		

FY 2020

The purpose of this request is to replace the hardware and upgrade software associated with the Center at The Heights (CATH) Computer Lab. This will include 20 desktops, 4 laptops, a server, switch, and firewall. Also being upgraded would be any software associated with the specific operation. Typically throughout other departments across the Town the Information Technology Center (ITC) looks at individual pieces of hardware and determines its need for replacement. However since this equipment and software was purchased and installed at the same time, as well as the nature of the use of the equipment, it will be better to keep the same make and models of hardware and software instead of mixing and matching. New models will be able to take advantage of upgraded operating systems and faster processers to better serve the users of the Computer Lab. If the funding does not oc cur there is currently not sufficient funding in the ITC budget to cover the cost of replacing the added pieces of hardware. Outside of this request for replacement the move of the Council on Aging to the CATH more than double the number of computers for that department. That in itself will draw more funds from the ITC over time making it harder to use currently budgeted dollars for the replacement of hardware and software in the CATH Computer Lab.

			Capital Project	t Request			
Project Title:	Non-Public Safety Data Cente	r Servers and Storage	e Units			Fiscal Year:	2019
urpose:	Acquisition	Classification:	Technology	Status:	Revised Request	from the Prior CIP	
epartment:	Finance			Funding Source:	General Fund		
Partners:							
			Parameters				<u>Response</u>
. Are there any c	osts to bid, design, construct, purch	ase, install, implement,	or otherwise complete t	the project which are NOT included	?		No
. Are there recon	nmendations or costs identified by	other departments whic	ch are NOT factored into	the request?			No
. Does the projec	t support activities to produce new	revenue for the Town?					No
	ct require any permitting by any To						No
	dditional permanent staff be requir						No
	he operating budget need to be inc		÷ '				No
	his project increase the operating e	· ·					No
	his project lower the requesting De						No
			dditional expense to the	Town which is NOT already budge	ted?		No
	s NOT funded, will current Town re						No
	raining or annual licensing required						Yes
	t for which an Initial Eligibility Proje		ed with the Community	Preservation Committee (CPC)?			No
	st in response to a Court, Federal, c						No
	st in response to a documented pul						No
	st to improve or make repairs to ex		-				No
	st to purchase apparatus/equipmer						No
	st to repair or otherwise improve p			ructure?			No
	department be required to provide		complete the project?				No
Primary Reason fo		-					
	nated Project Cost Determined:	In-House Estimate	2	Estimated Project	Cost:	\$325,000	
Jseful Life:	More than five (5) years but less	• • • •					
Budget Impact:	Negligible impact on the annual of	perating expenses less t	han \$5,000				
Total New FTE's:							

Project Budget Elements	Project Budget	2019	2020	2021	2022	2023
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$325,000	\$180,000				\$145,000
Technology Hardware/Software	\$0					
Other Expenses	\$0					
TOTAL	\$325,000	\$180,000	\$0	\$0	\$0	\$145,000
¢Ω						

\$0

Capital Project Request

Project Description and Considerations

FY19 \$180,000.00 Data Center 1 and Data Center 2 Hardware Replacements FY23 \$145,000.00 Data Center 1 and Data Center 3 Hardware Replacements

This project is for the replacement of hardware within the three Town of Needham data centers. Phase I of the project, which is taking place in the current fiscal year (FY18), will be the replacement of four servers, two storage units, and four switches. Phase II of the project will be the replacement of six servers, two storage units, and four switches. Data Center 1 is housed at the Town Hall, Data 2 is housed at the Public Services Administration Building, and Data Center 3 is housed at The Center at The Heights. Data Center 1 is the primary data center where the Town Departments access files and programs, the internet, and network and internet security takes place. The six servers at Town Hall are physical servers however three of them maintain and support upwards of 50 virtual servers with corresponding data maintained on the storage units. The other three are for specific software functions. The servers, storage unit, and switches at the Public Services Administration Building act as fail over in case of the Town Hall network and infrastructure going offline. The server and storage at The Center at The Heights is where backup data is housed and from there certain segments of the data are migrated off site using a Code42 business account. All of the current servers are Dell PowerEdge R400 - R700 series, the storage units are Dell Equallogics PS4000 - PS6000 series, and the switches are Dell PowerConnect 8000 series.

The Information Technology Center (ITC) is currently reviewing the data center design as described above to determine if a hyper-converged environment will be financially viable moving forward based on the FY18 and FY19 dollar requests. In a hyper-converged data center the infrastructure systems architecture is software-centric which integrates and consolidates compute, storage, networking and virtualization resources into minimal hardware. Using a hyper-converged data design between Data Center 1 and Data Center 2 would mean replacing the 20 devices that currently reside between these two locations with 4 – 6 devices in total between the two locations. Instead of 10 pieces of hardware in each location there would be 2 – 3 pieces of hardware in each location. This includes the switching hardware as well. Data Center 3 would still act as the location for back-ups of the data centers but would be using hardware that is less robust and still off siting back-ups with the Code42 cloud solution. ITC is also looking cloud based options as a Business Continuity/Disaster Recovery solution. During the first half of FY18 ITC will be engaged in demonstrations with vendors to better understand if a hyper-converged data center design will satisfy the data center demands of the Town. The goal is to find a solution that minimizes the amount of technology hardware needed as well as building space which in the long run will lessen the financial burden on ITC and any future buildings where ITC maintains and supports technology. For continuity sake the FY 2018 dollars (\$145,000) were included in the current request and can be seen under 2023. ITC uses a five year replacement model for infrastructure hardware. Next year's submission for this request will also include a Fiscal Year 2024 request for \$180,000 as represented in the current Fiscal Year 2019 request.

The importance of this project is to maintain hardware at a level that will support the needs of the Town Departments as well as either continuing or changing the model developed for Business Continuity. As equipment gets older it becomes harder and harder to maintain the same level of quality and performance when initially installed directly effecting the day to day operation of the Town. There are currently ITC operating budget dollars used for licensing for the both hardware and software maintenance and support.

Fiscal Year:

2019

			Capital Project	t Request			
Project Title:	Public Safety Data Center Serve	rs and Storage Un	its			Fiscal Year:	2019
Purpose:	Acquisition	Classification:	Technology	Status:	Same Request from	m the Prior CIP	
Department:	Finance			Funding Source:	General Fund		
Partners:	Public Safety						
			Parameters				<u>Response</u>
1. Are there any co	osts to bid, design, construct, purchase	e, install, implement	, or otherwise complete t	he project which are NOT included	!?		No
Are there recommendations or costs identified by other departments which are NOT factored into the request?							
Does the project	t support activities to produce new re	venue for the Town	2				No
4. Does this projec	t require any permitting by any Town	or State agency?					No
5. If funded, will ac	dditional permanent staff be required	?					No
6. If funded, will th	ne operating budget need to be increa	sed to cover operati	ng expenses?				No
7. If funded, will th	nis project increase the operating expe	ense for any other de	epartment?				No
3. If funded, will th	nis project lower the requesting Depar	tment's operating co	osts?				No
9. If funded, will th	nis project require ongoing assistance	from vendors at an a	additional expense to the	Town which is NOT already budge	ted?		No
	s NOT funded, will current Town rever						No
	raining or annual licensing required th						Yes
Is this a project	t for which an Initial Eligibility Project	Application can be f	led with the Community	Preservation Committee (CPC)?			No
	t in response to a Court, Federal, or S						No
	t in response to a documented public						No
15. Is this a reques	t to improve or make repairs to exten	d the useful life of a	building?				No
16. Is this a reques	t to purchase apparatus/equipment t	nat is intended to be	permanently installed at	the location of its use?			No
	t to repair or otherwise improve publ			ucture?			No
18. Will any other	department be required to provide as	sistance in order to	complete the project?				No
Primary Reason for		nctioning					
How was the Estim	nated Project Cost Determined:	In-House Estimat	e	Estimated Project	Cost:	\$90,000	
Useful Life:	More than five (5) years but less tha	0					
Budget Impact:	Negligible impact on the annual ope	rating expenses less	than \$5,000				
Total New FTE's:							

Project Budget Elements	Project Budget	2019	2020	2021	2022	2023
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$90,000	\$30,000		\$60,000		
Other Expenses	\$0					
TOTAL	\$90,000	\$30,000	\$0	\$60,000	\$0	\$0
\$0						

Capital Project Request

Project Title: Public Safety Data Center Servers and Storage Units

Fiscal Year:

2019

Project Description and Considerations

FY19 \$30,000.00 Digital Video Recorder

FY21 \$60,000.00 Public Safety Computer Aided Dispatch (CAD) Hardware Replacement

This project request consists of two elements used by Public Safety. The first element, Digital Video Recorder, is used internally and externally by the Needham Police Department. There are multiple cameras within the Needham Police Department from the front entrance to the jail cells and throughout the multiple hallways and areas. There are also several cameras on the external structure of the Public Safety Building as well as Town Hall that are managed through the Digital Video Recording hardware from the Police Department. These devices are used for safety and security of the officers and any other individuals who may find themselves within the Needham Police Department. The second element of the project request is the replacement of Public Safety CAD hardware installed during the FY15 upgrade of the Public Safety CAD software. The software piece of the Public Safety CAD project was funded by a capital request while the hardware piece of the Public Safety CAD project, as well as the Digital Video Recorder equipment, was funded using State 911 Grant Funds. However during CY15 the State put a hold on all future funding of the 911 Grants. Because of the obth the Digital Video Recording item. Dollars for the Public Safety CAD hardware and software maintenance and support will be available through savings starting FY18 due to the ending of support for the replaced Sungard Public Safety modules.

			Capital Project	Request		
Project Title:	Public Safety Mobile Devi	ces			Fisca	l Year: 2019
Purpose:	Acquisition	Classification:	Technology	Status:	Same Request from the F	Prior CIP
Department:	Finance			Funding Source:	General Fund	
Partners:	Public Safety					
			Parameters			Respon
1. Are there any c	osts to bid, design, construct, p	urchase, install, implement,	or otherwise complete the	he project which are NOT included	?	No
2. Are there recor	nmendations or costs identified	l by other departments which	ch are NOT factored into t	the request?		No
3. Does the proje	ct support activities to produce	new revenue for the Town?				No
4. Does this proje	ct require any permitting by any	/ Town or State agency?				No
5. If funded, will a	dditional permanent staff be re	equired?				No
	he operating budget need to be	· · · ·	• ·			No
	his project increase the operation					No
	his project lower the requesting					No
9. If funded, will t	his project require ongoing assis	stance from vendors at an a	dditional expense to the	Town which is NOT already budget	ed?	No
	s NOT funded, will current Tow					No
11. Is specialized	training or annual licensing requ	ired that the Town will nee	d to pay in order to use th	ne asset?		Yes
12. Is this a project	ct for which an Initial Eligibility P	Project Application can be fi	led with the Community F	Preservation Committee (CPC)?		No
13. Is this a reque	st in response to a Court, Feder	al, or State order?				No
	st in response to a documented	• •				No
15. Is this a reque	st to improve or make repairs to	o extend the useful life of a	building?			No
	st to purchase apparatus/equip					No
	st to repair or otherwise improv		-	ucture?		No
,	department be required to pro		complete the project?			No
Primary Reason fo		d replacement				
	mated Project Cost Determined		e	Estimated Project	Cost: \$70,0	00
Useful Life:	More than five (5) years but l					
Budget Impact:	Negligible impact on the annu	ual operating expenses less	than \$5,000			
Total New FTE's:						

Project Budget Elements	Project Budget	2019	2020	2021	2022	2023
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$70,000	\$35,000	\$35,000			
Other Expenses	\$0					
TOTAL	\$70,000	\$35,000	\$35,000	\$0	\$0	\$0
\$0						

Capital Project Request

Project Title: Public Safety Mobile Devices

Fiscal Year:

2019

Project Description and Considerations

This project is for the replacement of laptops and tablets that are used in the Needham Police and Fire Department Vehicles. The hardware is used to access multiple applications during the the daily operations of either an individual or vehicle. The hardware communicates with the Public Safety CAD software as well as State and Federal databases. The devices themselves are hardened military specification hardware manufactured for above normal use in more intensive environments than normal off the shelf hardware. The current hardware is a mix a Panasonic ToughBooks and ToughTablets. In the past the hardware was funded using State 911 Grant Funds. However during CY15 the State put a hold on all future funding of the 911 Grants. Because of the uncertainly of the funding from the State it is important to place this request out into the future. There are currently ITC operating budget dollars used for licensing for both hardware and software maintenance and support.

			Capital Proje	ct Request			
Project Title:	Revenue and General Ledger/Acc	counting Softwar	e Package Replacem	ent		Fiscal Year:	2021
Purpose:	Acquisition	Classification:	Technology	Status:	Same Request fro	om the Prior CIP	
Department:	Finance			Funding Source:	General Fund		
Partners:	Treasurer's Office, Accounting Depart	ment, Finance Dep	artment, School Busine	ss Office, School Human Resources	, Payrol, IT Services		
			Parameters				<u>Response</u>
1. Are there any co	sts to bid, design, construct, purchase,	install, implement,	, or otherwise complete	e the project which are NOT include	ed is this request?		No
2. Are there recom	mendations or costs identified by othe	r departments whi	ch are NOT factored int	to the request?			No
Does the project	support activities to produce new rev	enue for the Town?	2				Yes
 Does this project 	t require any permitting by any Town o	or State agency?					No
5. If funded, will ad	ditional permanent staff be required?						No
6. If funded, will the	e operating budget need to be increase	ed to cover operati	ng expenses?				Yes
,	is project increase the operating exper						No
	is project lower the requesting Depart						No
	is project require ongoing assistance fr		additional expense to the	ne Town which is NOT already budg	eted?		Yes
1 1	NOT funded, will current Town revenue						No
	aining or annual licensing required tha						Yes
· · ·	for which an Initial Eligibility Project A		led with the Communit	y Preservation Committee (CPC)?			No
	t in response to a Court, Federal, or Sta						No
	t in response to a documented public h	,					No
	t to improve or make repairs to extend		-				No
	t to purchase apparatus/equipment the						No
	t to repair or otherwise improve public			structure?			No
	department be required to provide ass		complete the project?				Yes
Primary Reason for						4	
	ated Project Cost Determined:	In-House Estimat	e	Estimated Proje	ct Cost:	\$1,100,000	
Useful Life:	Between eight (8) and twelve (12) yea						
o 1	May increase annual operating expen	ses between \$5,00	1 and \$25,000				
Total New FTE's:							

Project Budget Elements	Project Budget	2021	2022	2023	2024	2025
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$1,100,000	\$1,100,000				
Other Expenses	\$0					
TOTAL	\$1,100,000	\$1,100,000	\$0	\$0	\$0	\$0
\$0						

	Capital Project Request		
Project Title:	Revenue and General Ledger/Accounting Software Package Replacement	Fiscal Year:	2021
-	Project Description and Considerations	-	
-			
	and General Ledger/Accounting Software Package Replacement is a request to replace the current Revenu	• •	
	e current Revenue Application was first purchased in 1996 and has gone through several versions since the	c	

the collection of Real Estate and Personal Property Tax, Excise Tax, Utility Fees, and Miscellaneous Revenues collected among both Town and School Departments. There are other modules that are incorporated with the Revenue Package and these include Customer Information, Land /Parcel Management, and Cash Receipts. There has been a need for better reporting out of the Revenue package which is currently housed on an IBM piece of hardware. All of the specialized programming and process in the Revenue Application is done using COBOL which in combination with the IBM hardware is becoming more and more difficult for the Information Technology Center (ITC) to support. Migrating both the application and hardware to a non-IBM piece of hardware would bring that specific application and hardware into the business model currently in place in the ITC. The General Ledger/Accounting Software Package has been in place since FY14. The movement to a different vendor providing the General Ledger/Accounting Software Package has been both beneficial and troublesome at the same time. Though some reporting, requisition, and rollover processes have seen improvement the fact that the Revenue and General Ledger/Accounting packages are from two different vendors and hardware types has caused some problems. Most of those problems involve certain processes becoming more tedious and time consuming leading to delays in departments disseminating information. These processes range from revenue posting, cash reconciliation, bank account reconciliation, and personnel reporting. The complexity of the Town's payroll has also pushed the limits of the General Ledger/Accounting package leading to some confusion from certain employee groups about the line items on payroll checks and direct deposit notices. There may need to be additional cost increases for ongoing annual maintenance in comparison to the current Revenue and General Ledger/Accounting Software Packages. It is difficult to say the exact amount at this time but is anticipated these costs will be more due to the complex nature of the Town's business and the level of application needed. Also after implementation there may be situations that may require programming specialization which the vendor would supply. The planning and implementation for this project will involve multiple Town departments (Treasurer's Office, Accounting Office, Assessor's Office, Human Resources) as well as School departments (Business Office, Human Resources, Payroll, Information Technology Services).

			Capital Project	Request			
Project Title:	Technology Systems a	nd Applications Updates		-		Fiscal Year:	2023
Purpose:	Acquisition	Classification:	Technology	Status:	Revised Request	from the Prior CIP	
Department:	Finance			Funding Source:	Revolving Fund		
Partners:	DPW Engineering						
			Parameters				Response
1. Are there any o	costs to bid, design, construc	ct, purchase, install, implement	, or otherwise complete tl	he project which are NOT included	d?		No
2. Are there reco	mmendations or costs ident	ified by other departments whi	ch are NOT factored into	the request?			No
3. Does the proje	ct support activities to prod	uce new revenue for the Town	?				No
4. Does this proje	ct require any permitting by	any Town or State agency?					No
5. If funded, will a	additional permanent staff b	e required?					No
6. If funded, will t	he operating budget need t	o be increased to cover operat	ng expenses?				No
7. If funded, will t	his project increase the ope	erating expense for any other d	epartment?				No
8. If funded, will t	his project lower the reques	sting Department's operating c	osts?				No
9. If funded, will t	his project require ongoing	assistance from vendors at an	additional expense to the	Town which is NOT already budge	eted?		No
10. If the project	is NOT funded, will current	Town revenue be reduced?					No
•		required that the Town will nee					No
12. Is this a proje	ct for which an Initial Eligibil	lity Project Application can be f	iled with the Community I	Preservation Committee (CPC)?			No
13. Is this a reque	est in response to a Court, Fe	ederal, or State order?					No
	•	nted public health or safety cor					No
15. Is this a reque	est to improve or make repa	irs to extend the useful life of a	building?				No
16. Is this a reque	est to purchase apparatus/e	quipment that is intended to be	e permanently installed at	the location of its use?			No
17. Is this a reque	est to repair or otherwise im	prove public property which is	NOT a building or infrastr	ucture?			No
18. Will any othe		provide assistance in order to	complete the project?				No
Primary Reason f	or the Request: Opera	ational efficiency					
How was the Esti	mated Project Cost Determi	ned: In-House Estimat	e	Estimated Project	Cost:	\$100,000	

Useful Life: More than five (5) years but less than eight (8) years

Budget Impact:	Negligible impact on the annual operating expenses less than \$5,000

Total New FTE's:

Project Budget Elements	Project Budget	2023	2024	2025	2026	2027
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$100,000	\$100,000				
Other Expenses	\$0					
TOTAL	\$100,000	\$100,000	\$0	\$0	\$0	\$0
\$0						

Capital Project Request

Project Title: Technology Systems and Applications Updates

Fiscal Year:

2023

Project Description and Considerations

1) Imagery and Planimetric Data Updates:

The Imagery and Planimetric Data Updates (previously titled Geographic Information Systems Upgrade) project is a request for a flight to update aerial imagery and then use that aerial imagery to update the Town's planimetric data. The aerial imagery and planimetric data is used across Town departments but it is most used by Public Works Engineering using computer aided design (CAD) software and the Information Technology Center Geographic Information System (GIS) Administrator using GIS software (ESRI, Inc) in support of multiple Town and School Departments. CAD and GIS are systems that use hardware and software for storage, retrieval, mapping, analysis, design, and planning. The planimetric data is the electronic representation of above ground physical structures and features. These physical structures and features are then associated with layers in CAD and geospatial information and databases in GIS which then allows for the different departments to use the planimetric data will be incorporated into the Town's web GIS as well as secure web GIS sites accessed by DPW Divisions for viewing and querying as well as the Engineering Division using the data for planning and design projects. Because Water & Sewer, Planning, Conservation and other Town and School Departments use or request services specific to the planimetric data it is important to have up to date data so these departments can plan, analyze and display with as accurate a representation of the physical structures and features. Licensing costs to use the data through specific software are currently paid through the operating budget. The use of new planimetrics and imagery will not directly cause any increase to these costs.

The revision to this CIP is that the starting fiscal year was changed from 2022 to 2023. This CIP request is a recurring request with the most recent fulfillment of the request happening in Fiscal Year 2015. The initial phase of the Imagery and Planimetric Data Updates is to fly the Town and collect imagery which is then used to collect planimetric data. However due to a heavy snow fall during the winter of 2014 - 2015 that left substantial snow on the ground in the spring of 2015 the flight did not take place. The flight was rescheduled for the spring of 2016 but due to technical problems with the flight that took place in the spring of 2016 the imagery deliverables did not take place. The flight did take place this past spring 2017 and the imagery deliverables should be available by the end of October 2017. Because of these delays and the fact that the flight took place this year it was decided to push the next flight for imagery and collection of planimetric data out one year.

			Capital Project	Request			
Project Title:	Town Side Multi-Function	Printer Devices				Fiscal Year:	2019
Purpose:	Acquisition	Classification:	Technology	Status:	Revised Request f	rom the Prior CIP	
Department:	Finance			Funding Source:	Revolving Fund		
Partners:							
			Parameters				Response
				e project which are NOT included	?		No
	nmendations or costs identified			he request?			No
	t support activities to produce n		1?				No
	ct require any permitting by any						No
5. If funded, will a	dditional permanent staff be req	uired?					No
6. If funded, will th	he operating budget need to be i	ncreased to cover operat	ting expenses?				No
,	his project increase the operating						No
	his project lower the requesting						No
9. If funded, will th	his project require ongoing assist	ance from vendors at an	additional expense to the T	own which is NOT already budget	ed?		No
	s NOT funded, will current Town						No
	raining or annual licensing requi						No
12. Is this a projec	t for which an Initial Eligibility Pr	oject Application can be	filed with the Community P	reservation Committee (CPC)?			No
	st in response to a Court, Federa						No
14. Is this a reques	st in response to a documented	public health or safety co	ndition?				No
	st to improve or make repairs to						No
16. Is this a reques	st to purchase apparatus/equipn	nent that is intended to b	e permanently installed at t	the location of its use?			No
	st to repair or otherwise improve			icture?			No
18. Will any other	department be required to prov	ide assistance in order to	complete the project?				No
Primary Reason fo	or the Request: Obsolete/r	ion-functioning					
How was the Estin	nated Project Cost Determined:	In-House Estima	te	Estimated Project	Cost:	\$142,400	
Useful Life:	Between eight (8) and twelve (12) years					
Budget Impact:	Negligible impact on the annua	al operating expenses less	s than \$5,000				
Total New FTE's:							

Project Budget Elements	Project Budget	2019	2020	2021	2022	2023
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$142,400	\$35,600	\$35,600	\$35,600	\$35,600	
Other Expenses	\$0					
TOTAL	\$142,400	\$35,600	\$35,600	\$35,600	\$35,600	\$0
\$0						

Capital Project Request

Project Title: Town Side Multi-Function Printer Devices

Fiscal Year:

2019

Project Description and Considerations

This project is for the replacement of multi-function printers throughout the four primary Town locations (Town Hall, Public Services Administration Building, Public Safety, Center at The Heights) due to either being obsolete or part of a planned schedule replacement. In all there are nine of these devices between the buildings with only three of the devices not purchased during a capital project. Though several of these devices are currently over six years old, with one over eight, only one has reached 50% of the anticipated life cycles for each model according to the manufacturer estimated cycles per year. Based on the current usage the expected life of these devices is between ten and twelve years however the manufacturer of these devices does not guarantee the availability of parts or consumables past seven years. The cycle for replacement of these multi-function printers would be seven years. During their replacement they would be replaced with devices similar in specifications. Due to the time out till replacement it is difficult to give an actual make and model that would be purchased. The current devices are listed below.

The revision to this request is that the fiscal year of start was moved forward two years from fiscal year 2021 to fiscal year 2019. The movement forward request was made, after conversation with the Town Manager, because of the increase of device downtime which required maintenance causing time lost waiting for printing projects as well as the issue, as noted above, with the lack of availability of parts and consumables from the manufacturer past seven years. More frequently, OEM consumables and parts have been replaced with refurbished and third party parts which in some case have not worked with the older multi-function printers. By fiscal year 2019 the age of the majority of these devices will range from five to eight years with the remaining three to four years old. The process of determining which devices will be replaced will be based on the age of the machine and the overall amount of use.

- 1) Public Services Administration Building, 2nd Floor, Ricoh Aficio MP 7500
- 2) Public Services Administration Building, 1st Floor, Ricoh Aficio MP 7501
- 3) Public Services Administration Building , 2nd Floor , Ricoh Aficio MP 8001
- 4) Town Hall, Lower Level, Ricoh Aficio MP 7501
- 5) Town Hall, 1st Floor, Ricoh Aficio MP 7501
- 6) Town Hall, Lower Level, Ricoh Pro 1357EX
- 7) Center at the Heights Copy Room RICOH MP C5503
- 8) Public Safety, Police, Konica Minolta Biz Hub 350
- 9) Public Safety, Fire, Konica Minolta Biz Hub 350

				Capital Proje	ct Request					
Project Title:	Fleet Replacem	ent Program					Fis	cal Year:	2019	
Purpose:	Acquisition	C	lassification: Ed	quipment	S	tatus:	Amended Request fro	m the Prior CIP		
Department:	Finance				S	upports:	Other (see below for in	nformation)		
Partners:	Building, Fire, Hea	lth and Human Service	s, Police, Public Wor	ks, and the School	Department U	seful Life:	Varies between 6 and 2	20 years		
				Parameters					<u>Response</u>	
1. Are there any co	osts to bid, design, o	construct, purchase, ins	stall, implement, or o	otherwise complete	e the project which a	re NOT included i	s this request?		No	
		ts identified by other d		re NOT factored int	the request?				No	
		itting by any Town or S							No	
		s the Department com							Not Applicable	
5. If this request is	for Building Improv	ements, has the Depar	rtment communicate	ed with the Building	g Maintenance (BM)	division, and doe	es BM support the reque	est?	Not Applicable	
6. If funded, will a	dditional permanen	t staff be required?					Total New FTE's: 0		No	
,	1 0 0	need to be increased t	1 0						Yes	
8. If funded, will th	his project lower the	e requesting Departme	nt's operating costs?						No	
9. If funded, will th	nis project require o	ngoing assistance from	vendors at an addit	ional expense to th	ne Town which is NO	T already budgete	ed?		No	
10. If the project is	s NOT funded, will c	urrent Town revenue b	e reduced?						No	
11. Is specialized t	raining or annual lic	ensing required that th	e Town will need to	pay in order to use	e the asset?				Yes	
12. Is this a project	t for which an Initia	l Eligibility Project Appl	ication can be filed v	with the Communit	y Preservation Comr	nittee (CPC)?			Not Applicable	
13. Is this a reques	st in response to a C	Court, Federal, or State	order?						No	
14. Is this a request in response to a documented public health or safety condition?										
15. Is this a reques	st to improve or ma	ke repairs to extend the	e useful life of a build	ding?					No	
16. Is this a reques	st to purchase appa	ratus/equipment that is	s intended to be per	manently installed	at the location of its	use?			No	
17. Is this a reques	st to repair or other	wise improve public pro	operty which is NOT	a building or infras	structure?				No	
18. Will any other	department be req	uired to provide assista	nce in order to com	plete the project?					Yes	
19. If funded, will	this project increase	e the operating expense	e for any other depa	rtment?					Yes	
Project Cost:	\$8,284,433	How was the Project	Cost Determined:		n-House Estimate					
Budget Impact:	May increase ann	ual operating expenses	between \$5,001 and	d \$25,000						
Project Bud	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025	
Planning/Feasibilit	Σ γ	\$0								
Design/Engineerin	g	\$0								
Land/ROW Acquis	ition	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Man	agement	\$0								
Equipment		\$8,284,433	\$2,968,440	\$1,587,898	\$694,676	\$2,037,020	\$996,399			
Furniture, Fixtures	, and Equipment	\$0								
Technology Hardw	vare/Software	\$0								
Other Expenses		\$0								
		\$8,284,433	\$2,968,440	\$1,587,898	\$694,676	\$2,037,020	\$996,399	\$0		

\$0

Capital Project Request

Project Title: Fleet Replacement Program

Fiscal Year:

2019

Project Description and Considerations

The Town's fleet replacement program is funded through both the capital plan and the operating budget. A major equipment expense for the Town is rolling stock. The Town relies upon many types and sizes of vehicles in order to provide services, respond to emergencies, maintain public facilities, and improve the infrastructure in the community. The fleet replacement program consolidates all vehicles and special equipment attachments under one submission, but allocation of resources is looked at on a department by department basis rather than as one global replacement schedule. Needs and purposes for equipment differ significantly, and no department can do its work without the equipment. We classify the fleet program in three categories: core fleet (general purpose vehicles), special purpose/high value vehicles, and snow and ice equipment. The program is intended to centrally present and review the Town's rolling stock operations in order to ensure timely, cost effective, and high quality replacement of vehicles, maintenance, fueling, and short-term transportation. However, the Police Department vehicles are not included in this request. Generally, the Police Department vehicles are funded through the operating budget as many vehicles in the department do not meet the threshold to be considered part of the capital program. A majority of the Town's fleet maintenance and management is performed by the Garage Division of the Public Works Department. Other maintenance work is provided off-site by vendors due to factors such as specialized work, volume, or warranty.

Managing and maintaining a fleet of more than 200 vehicles – from passenger vehicles to large heavy duty diesel trucks and tractors – involves some of the Town's most environmentally consequential choices. Considering the number of vehicles purchased and the thousands of gallons of fuel used, the fleet represents one of the Town's opportunities to meet its goal of environmentally responsible and sustainable operations. The most obvious and substantial environmental impacts of the fleet for the Town are, of course, tailpipe emissions and fuel use. However, an environmentally superior fleet encompasses a number of other factors, only some of which are under the control of fleet operations. For example, the Town's ability to influence vehicle manufacturing is limited, even though the process involves huge amounts of material extraction, use of natural resources and is responsible for significant air and water pollution. The elements that the Town's fleet operations can control or influence to achieve a cleaner and

- Fleet size
- Fuel use, type, and amount

greener fleet include the following:

- Fueling procedures preventing pollution from incidental fuel spills
- How vehicles are maintained, e.g. avoiding oil leaks, ensuring proper tire inflation, etc.
- Use of maintenance materials, e.g., alternatives to hydraulic fuels, or recycled anti-freeze
- Use of recycled oil, and, as appropriate, tires
- Use, storage and disposal of hazardous materials used in vehicle maintenance
- Vehicle type, e.g., fuel efficiency, size, and availability of alternatives

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Capital Project Request

Project Title: Fleet Replacement Program

Supplemental Information

The Town's fleet replacement program was established in FY2015. This represents a budget and schedule for the Town's rolling stock fleet of approximately 232 vehicles, trailers, and large specialized attachments and the School Department fleet of vans and buses. General purpose vehicles include pickup trucks, a variety of sedans, SUV's, vans, and police vehicles (81). They comprise approximately 35 percent of the entire fleet. General purpose vehicles are utilized in every department and are relatively inter-changeable. The replacement of these vehicles can proceed on a regular schedule and should be considered part of the Town's base recurring costs.

The Town relies on a number of trailers for the purpose of moving tools and equipment, hauling trash and debris, and transporting special equipment. The Town has 56 trailers, which represents approximately 24 percent of the fleet, many of the trailers have a replacement cost that falls below the capital threshold. When a low dollar value trailer is recommended for replacement, the funding request is submitted by the individual department with its operating budget request.

Specialized, high value vehicles, and snow and ice equipment comprise of the other 35 percent of the fleet. These vehicles and equipment are just as integral to Town operations as the general purpose vehicles, but serve the unique purposes of specific departments or divisions. Included in this group are the high value vehicles such as ambulances, large dump trucks, fire engines, street sweepers, and others for which appropriations need to be planned.

The intent and goal of the fleet replacement program is to: Replace vehicles before service delivery is impacted negatively; maximize vehicle availability for all user departments; minimize costs from vehicle downtime and emergency maintenance and operational costs; take advantage of opportunities to implement new technology to achieve fuel conservation and reduced emissions; promote safety, reliability and operational efficiencies; and enhance the public image of the Town's fleet.

The estimated cost of the identified replacements (including the school department) for core fleet, specialize equipment, and snow and ice equipment is \$8,284,433 which is up from the prior CIP five-year submission of \$7,693,399. The change is due to the addition of fiscal year 2023 and increased cost estimates for some specialized equipment, most notably fire apparatus, and several vehicles which should be replaced in FY2019 which is earlier than planned (for example units 28, 94, 107, and 143) or were not funded in the previous year (unit 457). The estimated core fleet replacement cost over the five year period is \$2,385,803, which is up from the prior CIP amount of \$1,853,131; specialized equipment is \$5,548,947 which is also higher than prior CIP of \$5,198,833; and snow and ice equipment is \$328,346 which down from the prior amount of \$641,436. The FY2019 request is for vehicles that have been identified to be replaced based on, condition, functionality, usability, or cost of maintenance. The vehicles identified for replacement in FY2020 and beyond are based on industry recommended replacement schedules. However, the schedule is adjusted annually based on the actual condition of the vehicles, the serviceability of the vehicles, demands on the equipment, and financial resources.

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Fiscal Year: 2019

				Capital Pro	ject Request			
Project Title:	Fleet Replacem	ent Program					Fiscal Year:	2019
				Supplement	al Information			
	•		•		•	at relates to an enterprise fund enterprise funds if approved.	l would be paid by t	he
	2019	2020	2021	2022	2023	Total		
RTS	\$245 <i>,</i> 360	\$34,783	\$0	\$153,337	\$264,984	\$ 698,464		
Sewer	\$132,111	\$239,000	\$60,046	\$ 978,395	\$42,558	\$1,452,110		
Water	\$355,048	\$35 <i>,</i> 803	\$84,428	\$224,759	\$0	\$ 700,038		

Specific Questions:

Question 7: If funded, will the operating budget need to be increased to cover operating expenses? Yes, as part of the fleet replacement program, there are recommendations to change some of the vehicles types or increase the number of vehicles available for use. In those years where such a change is approved, there may be an increase in insurance, and perhaps specialized tools in order to better maintain the new equipment.

Question 11: Is specialized training or annual licensing required that the Town will need to pay in order to use the asset? Yes, some vehicles require a commercial driver's license to operate. Other vehicles have specialized equipment which requires period training and demonstrations on the proper use of the equipment.

Question 18: Will any other department be required to provide assistance in order to complete the project? Yes, the various requesting departments must assist in the final assessment of the vehicle to be replaced, procurement of the new vehicle, and the discontinuation or transfer of the current vehicle. The vehicle may be retained as a pool vehicle for the department, transferred to another department, auctioned or traded, or otherwise disposed.

Question 19: If funded, will this project increase the operating expense for any other department? Increase costs may be incurred for any department that increases the number of vehicles used in the fleet. The Town's commercial and vehicle insurance expense could increase.

Vehicle to be Replaced	Dept	FY2019 Department Request Last Year	FY2019 Department Request This Year	FY2020 Department Request Last Year	FY2020 Department Request This Year	FY2021 Department Request Last Year	FY2021 Department Request This Year	FY2022 Department Request Last Year	FY2022 Department Request This Year	FY2023 Department Request NEW
Replace Unit 457 Ford Taurus	19		21,336							
Replace Unit 1 Ford Escape Hybrid	23.1	31,625	33,616							
Replace Unit 44 Ford Escape Hybrid	23.3	31,625	33,616							
Replace Unit 46 Ford Escape Hybrid	23.3	31,625	33,616							
Replace Unit 4 Ford F350	23.4	56,054	82,671							
Replace Unit 55 Ford F550	23.5	70,756	142,495							
Replace Unit 76 BOBCAT A300 SKID STEER	23.5	87,240	122,182							
Replace Unit 107 CAMOPLAST SW4S	23.5	0	190,811	186,358						
Replace Unit 181 Elgin PELICAN Sweeper	23.5	291,815	264,101							
Replace Unit 38 INTERNATIONAL IH 4300 Series	23.6	199,328	202,169							
Replace Unit 65 Ford F350	23.6		66,037							
Replace Unit 183 GIANT UTILITY LEAF PICKER TRAILER	23.6	28,336	25,722							
Replace Unit 301 FORD E150 VAN	23.6	30,464	34,069							
Replace Unit 143 CASE LOADER 721E	100	0	245,360					302,274		
Replace Unit 28 Ford F350	200	0	64,247	58,016						
Replace Unit 94 Ford F250	200	0	67,864							
Replace Unit 14 INTERNATIONAL 7400 Series	300	230,918	239,404							
Replace Unit 22 Ford F450	300	64,097	115,644							
Replace Unit 27 Ford F150	300					36,000				
Replace Unit 702 Ford F250	23.2		45,765							

Vehicle to be Replaced	Dept	FY2019 Department Request Last Year	FY2019 Department Request This Year	FY2020 Department Request Last Year	FY2020 Department Request This Year	FY2021 Department Request Last Year	FY2021 Department Request This Year	FY2022 Department Request Last Year	FY2022 Department Request This Year	FY2023 Department Request NEW
Replace Unit E02 E-ONE CYCLONE ii Fire Truck	18	666,339	840,163							
Replace Unit Van 4 FORD E150 VAN	21	34,025	48,776							
Replace Unit Van 5 FORD E150 VAN	21	34,025	48,776							
Replace Unit 92 FORD EXPLORER	23.3			38,385	38,385					
Replace Unit 10 INTERNATIONAL 7400 Series	23.5			239,000	239,000					
Replace Unit 39 Ford F550	23.5			73,233	73,233					
Replace Unit 57 Ford F350	23.5				66,407			50,123		
Replace Unit 102 JOHN DEERE LOADER 544J	23.5			181,481	181,481					
Replace Unit 182 FREIGHTLINER ELGIN CROSSWIND SWEEPER	23.5	291,815			302,028					
Replace Unit 253 VERMEER STUMP CUTTER	23.6				54,207					
Replace Unit 256 TRAILER UTILITY	23.6			44,005	44,005					
Replace Unit 56 Ford F150	100			34,783	34,783					
Replace Unit 29 INTERNATIONAL 7400 Series	200			239,000	239,000					
Replace Unit 164 Trailer ATLAS Copco	300			35,803	35,803					
Replace Unit 705 Ford Econ Van E250	23.2				37,571					
Replace Unit C-42 Ford Sedan	18			41,066	50,462					
Replace Unit Bus 14 IC SCHOOL BUS	21			94,975	90,568					
Replace Unit Van 1 FORD E150 VAN	21			35,216	50,483					
Replace Unit Van 2 FORD E150 VAN	21			35,216	50,483					
Replace Unit 2 Ford F150 XL	23.4					36,000	36,000			

Vehicle to be Replaced	Dept	FY2019 Department Request Last Year	FY2019 Department Request This Year	FY2020 Department Request Last Year	FY2020 Department Request This Year	FY2021 Department Request Last Year	FY2021 Department Request This Year	FY2022 Department Request Last Year	FY2022 Department Request This Year	FY2023 Department Request NEW
Replace Unit 113 CAMOPLAST SW4S	23.5			186,358			192,880			
Replace Unit 350 JOHN DEERE TRACTOR LOADER 4720	23.6						53,156	55,016		
Replace Unit 23 Ford F350	200					60,046	60,046			
Replace Unit 26 Ford F150	300					48,428	48,428			
Replace Unit 31 Ford F150	300					36,000	36,000			
Replace Unit 707 Ford Econ Van E250	23.2	36,301					38,886			
Replace Unit 713 Ford F450 Dump Truck	23.2							71,066		
Replace Unit C-01 FORD EXPLORER	18					60,464	51,133			
Replace Unit C-06 Ford F350	18					57,384	73,647			
Replace Unit Van 7 FORD E250 VAN	21					49,536	52,250			
Replace Unit Van 8 FORD E250 VAN	21					49,536	52,250			
Replace Unit 400 Ford Taurus	19							30,018	38,310	
Replace Unit 45 FORD E150 VAN	23.3							33,776	38,467	
Replace Unit 3 Ford F450	23.4							71,066	84,163	
Replace Unit 32 Ford F350	23.5							50,123	71,137	
Replace Unit 43 Ford F350	23.5							50,123	71,137	
Replace Unit 124 ADDCO MINI UTILITY TRAILER	23.5							26,429	26,429	
Replace Unit 168 GORMAN UTILITY TRAILER	23.6							37,706	37,706	
Replace Unit 186 GIANT LEAF VAC TRAILER	23.6							27,275	27,275	
Replace Unit 91 CONSTRUCTION SCALP TRUCK	100							153,337	153,337	

Vehicle to be Replaced	Dept	FY2019 Department Request Last Year	FY2019 Department Request This Year	FY2020 Department Request Last Year	FY2020 Department Request This Year	FY2021 Department Request Last Year	FY2021 Department Request This Year	FY2022 Department Request Last Year	FY2022 Department Request This Year	FY2023 Department Request NEW
Replace Unit 17 Ford F550	200			73,233					78,449	
Replace Unit 19 INTERNATIONAL 7400 Series	200			239,000					256,023	
Replace Unit 37 INTERNATIONAL 7500 Series	200							441,303	441,303	
Replace Unit 101 CASE LOADER	200							202,621	202,621	
Replace Unit 25 Ford F450	300							71,066	84,163	
Replace Unit 30 Ford F550	300			73,233					78,449	
Replace Unit 40 Ford F350	300							62,148	62,148	
Replace Unit 712 Ford Econ Van E250	23.2					49,575			40,247	
Replace Unit 756 Ford F150	23.2			34,783					37,260	
Replace Unit 404 Ford E350 VAN	25							100,240	100,240	
Replace Unit Van 9 TOYOTA SIENNA	21							37,725	54,079	
Replace Unit Van 10 TOYOTA SIENNA	21							37,725	54,079	
Replace Unit 108 TRACKLESS TRACTOR	23.5									206,164
Replace Unit 112 Prinoth	23.5									206,618
Replace Unit 5 INTERNATIONAL 7400 Series	100									264,984
Replace Unit 11 FORD EXPLORER	200									42,558
Replace Unit 35 INTERNATIONAL 4900 Series	300									
Replace Unit 700 Ford Econ Van E250	23.2					38,886				41,656
Replace Unit 452 Ford Taurus	14	35,758								41,034
Replace Unit HAZ HAZMAT TRAILER	18									

Vehicle to be Replaced	Dept	FY2019 Department Request Last Year	FY2019 Department Request This Year	FY2020 Department Request Last Year	FY2020 Department Request This Year	FY2021 Department Request Last Year	FY2021 Department Request This Year	FY2022 Department Request Last Year	FY2022 Department Request This Year	FY2023 Department Request NEW
Replace Unit Bus 1 BLUE BIRD 303 SCHOOL BUS	21									96,693
Replace Unit Bus 2 BLUE BIRD 303 SCHOOL BUS	21									96,693
		\$2,252,146	\$2,968,440	\$1,943,144	\$1,587,898	\$521,855	\$694,676	\$1,911,160	\$2,037,020	\$996,399

				Capital Pro	ject Request					
Project Title:	Police cruiser r	adio replacement						Fiscal Year:		2021
urpose:	Acquisition	C	Classification: E	quipment		Status:	Amended Requ	lest from the Prior	CIP	
epartment:	Police					Supports:	Public Safety			
artners:						Useful Life:	More than twe	lve (12) years		
				Parameters					<u>Re</u>	<u>esponse</u>
. Are there any co	osts to bid, design,	construct, purchase, in:	stall, implement, or o	otherwise comple	ete the project which	are NOT include	ed is this request?		No	
. Are there recom	nmendations or cos	sts identified by other d	lepartments which a	re NOT factored	into the request?				No	
. Does this projec	t require any perm	nitting by any Town or S	State agency?						No	
. If this request is	for Technology, ha	as the Department com	municated with ITC,	and does ITC sup	oport the request?				No	
. If this request is	for Building Impro	ovements, has the Depa	rtment communicate	ed with the Build	ing Maintenance (BN) division, and	does BM support th	e request?	No	
. If funded, will a	dditional permane	nt staff be required?					Total New FTE	s:	No	
. If funded, will th	ne operating budge	et need to be increased	to cover operating e	xpenses?					No	
. If funded, will th	nis project lower th	ne requesting Departme	ent's operating costs?	1					No	
. If funded, will th	nis project require	ongoing assistance fron	n vendors at an addit	ional expense to	the Town which is N	OT already budg	geted?		No	
0. If the project is	s NOT funded, will	current Town revenue	be reduced?						No	
1. Is specialized t	raining or annual li	censing required that the	he Town will need to	pay in order to u	use the asset?				No	
 Is this a projec 	t for which an Initia	al Eligibility Project App	lication can be filed v	with the Commu	nity Preservation Con	nmittee (CPC)?			No	
3. Is this a reques	st in response to a	Court, Federal, or State	order?						No	
4. Is this a reques	st in response to a	documented public hea	Ith or safety condition	n?					No	
5. Is this a reques	st to improve or ma	ake repairs to extend th	e useful life of a buil	ding?					No	
6. Is this a reques	st to purchase appa	aratus/equipment that i	is intended to be per	manently installe	ed at the location of it	s use?			No	
7. Is this a reques	st to repair or othe	rwise improve public pr	roperty which is NOT	a building or infi	rastructure?				No	
.8. Will any other	department be rec	quired to provide assista	ance in order to com	plete the project	?				No	
9. If funded, will	this project increas	se the operating expens	e for any other depa	rtment?					No	
Project Cost:	\$93,351	How was the Project	t Cost Determined:		In-House Estimate				-	
Budget Impact:										
Project Bud	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibilit	Ξy	\$0								
esign/Engineerin	g	\$0								
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Man	agement	\$0								
quipment		\$93,351		\$0	\$93,351					
urniture, Fixtures	, and Equipment	\$0								
echnology Hardw		\$0								
)ther Expenses	-	\$0								
		· · · ·	\$0	\$0	\$93,351		\$0	\$0	\$0	

Capital Project Request

Project Title: Police cruiser radio replacement

\$0

Fiscal Year:

2021

Project Description and Considerations

The current police cruiser radio system has been in service for over nine years. This is the primary communication tool between the officers in the field and the police dispatch center .The eighteen radios are Motorola Astro Spectra series which are now discontinued by the manufacturer. While we currently do not have service agreements for the cruiser radios due to age of the radios, replacement parts will be increasingly difficult to acquire in the future. With this in mind, the department is proposing to replace 20 cruiser radios with a compatible radio system in FY 2021. At that time, these units will have been in service for fourteen years, which would be the end of their useful life cycle. The increase of \$191.88 per unit over FY18 is quoted from the new state contract ITT57 MA State. This pricing reflects replacing our current fleet radios with the newer model.

In last years submition the cruiser radio replacment was scheduled for FY 2019. Currently we are in the process of a communications study in conjunction with the New Public Safety Building study. I want to suggest waiting to see what the outcome of the communication study and public safety building before purchasing new cruiser radios to ensure compatibility.

The increase in price also reflects the increase of radios from 18 to 20. The first addition is to add a radio to the travel car which currently is not equipped with one. The second radio is to be installed in a detective vehicle that was added to the fleet.

Supplemental Information

				Capital Proj	ect Request				
Project Title:	Police Departn	nent Firearm Replace	ment					Fiscal Year:	2020
urpose:	Acquisition	C	lassification: E	Equipment		Status:	Same Request fr	om the Prior CIP	
epartment:	Police					Supports:	Public Safety		
artners:						Useful Life:	More than eight	(8) years	
				Parameters 1					Response
. Are there any c	osts to bid, design,	construct, purchase, in	stall, implement, or	otherwise comple	te the project which	are NOT include	ed is this request?		No
. Are there recon	nmendations or co	sts identified by other d	epartments which a	are NOT factored in	nto the request?				No
. Does this proje	ct require any pern	nitting by any Town or S	tate agency?						No
. If this request is	s for Technology, h	as the Department com	municated with ITC	, and does ITC sup	port the request?				No
		ovements, has the Depa) division, and	loes BM support the	request?	No
. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:		No
. If funded, will tl	he operating budge	et need to be increased	to cover operating e	expenses?					No
. If funded, will t	his project lower th	he requesting Departme	nt's operating costs	;?					No
. If funded, will t	his project require	ongoing assistance from	n vendors at an addi	itional expense to	the Town which is N	OT already budg	eted?		No
.0. If the project i	is NOT funded, will	current Town revenue	pe reduced?						No
1. Is specialized t	training or annual l	icensing required that th	ne Town will need to	o pay in order to us	se the asset?				yes
2. Is this a projec	ct for which an Initi	ial Eligibility Project App	lication can be filed	with the Commun	ity Preservation Con	nmittee (CPC)?			No
3. Is this a reque	st in response to a	Court, Federal, or State	order?						No
4. Is this a reque	st in response to a	documented public hea	lth or safety conditi	on?					No
.5. Is this a reque	st to improve or m	ake repairs to extend th	e useful life of a bui	ilding?					no
6. Is this a reque	st to purchase app	aratus/equipment that i	s intended to be pe	rmanently installed	d at the location of it	s use?			No
7. Is this a reque	st to repair or othe	erwise improve public pr	operty which is NO	T a building or infra	astructure?				No
.8. Will any other	department be re	quired to provide assista	ince in order to com	nplete the project?					No
9. If funded, will	this project increas	se the operating expens	e for any other depa	artment?					No
Project Cost:	\$31,000	How was the Project	Cost Determined:		Industry References				-
Budget Impact:	Negligible impac	t on the annual operatir	g expenses less tha	n \$5,000					
Project Bud	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
lanning/Feasibili	ty	\$0							
esign/Engineerin	ng	\$0							
and/ROW Acquis	sition	\$0							
ite Preparation		\$0							
onstruction		\$0							
onstruction Man	agement	\$0							
quipment		\$26,000		\$26,000					
urniture, Fixtures	s, and Equipment	\$0							
echnology Hardv	ware/Software	\$0							
ther Expenses		\$5,000		\$5,000					
OTAL		\$31,000	\$0	\$31,000	\$0		\$0 \$	0	\$0

Capital Project Request

Project Title: Police Department Firearm Replacement

\$0

2020

Fiscal Year:

Project Description and Considerations

The current service weapon of the Police Department is a Smith and Wesson M&P 40 caliber. The weapon is outfitted with night sights and has a 15 round capacity in each magazine. The current weapon was placed into service in 2009, replacing a weapon that was in service for eight years. Based on a study conducted by the FBI and research done by our firearms instructors we would replace the Smith and Wesson 40 caliber with a 9MM firearm (make and model to be determined). The cost includes the purchase of the new firearm and holsters. The other expense (\$5000.) is for the purchase of new 9mm ammunition. The department intends to purchase 52 weapons.

Supplemental Information

				Capital Proj	ect Request				
Project Title:	Police use of F							Fiscal Year:	2019
Purpose:	Acquisition	C	assification: Eq	uipment		Status:	Amended Reque	st from the Prior	CIP
Department:	Police					Supports:	Public Safety		
Partners:	IT					Useful Life:	More than eight (8) years	
				Parameters					Respons
L. Are there any c	osts to bid, design,	construct, purchase, ins	tall, implement, or ot	herwise complet	e the project whic	h are NOT include	d is this request?		No
. Are there recor	nmendations or co	sts identified by other de	epartments which are	e NOT factored in	to the request?				No
. Does this proje	ct require any pern	nitting by any Town or St	ate agency?						No
1. If this request is	s for Technology, h	as the Department comr	nunicated with ITC, a	nd does ITC supp	ort the request?				Yes
5. If this request is	s for Building Impro	ovements, has the Depar	tment communicated	d with the Buildir	g Maintenance (B	M) division, and c	loes BM support the	request?	No
5. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:		No
. If funded, will t	he operating budge	et need to be increased t	o cover operating exp	penses?					No
3. If funded, will t	his project lower th	ne requesting Departmer	nt's operating costs?						No
). If funded, will t	his project require	ongoing assistance from	vendors at an addition	onal expense to t	he Town which is I	NOT already budg	eted?		No
0. If the project i	s NOT funded, will	current Town revenue b	e reduced?	•					No
1. Is specialized t	training or annual I	icensing required that th	e Town will need to p	bay in order to us	e the asset?				No
		al Eligibility Project Appl				mmittee (CPC)?			No
		Court, Federal, or State			-				No
4. Is this a reque	st in response to a	documented public heal	th or safety conditior	1?					No
5. Is this a reque	st to improve or m	ake repairs to extend the	e useful life of a build	ing?					No
L6. Is this a reque	st to purchase app	aratus/equipment that is	intended to be perm	nanently installed	l at the location of	its use?			No
7. Is this a reque	st to repair or othe	rwise improve public pro	operty which is NOT a	building or infra	structure?				No
L8. Will any other	department be re	quired to provide assista	nce in order to comp	lete the project?					No
L9. If funded, will	this project increas	se the operating expense	for any other depart	tment?					No
Project Cost:	\$47,000	How was the Project	Cost Determined:		Industry Reference	es			
Budget Impact:	Negligible impac	t on the annual operating	g expenses less than s	\$5,000	-				
Project Bud	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibili [.]	ty	\$0						-	
Design/Engineerir	ng	\$0							
and/ROW Acquis	sition	\$0							
Site Preparation		\$0							
Construction		\$0							
onstruction Man	agement	\$0							
quipment	-	\$47,000	\$47,000						
	s, and Equipment	\$0							
echnology Hardw		\$0							
Other Expenses		\$0							
		\$47,000	\$47,000	\$0	\$0		\$0 \$		\$0

Capital Project Request

Project Title: Police use of Force Simulator

\$0

Fiscal Year:

2019

Project Description and Considerations

This request is for a comprehensive interactive Use-Of-Force training simulator which will provide a platform for realistic, stress- induced training. The system provides scenarios that enhance markmanship skills, but more importantly, they improve an officers decision making skills and the appropriate selection of force used. The simulator provides trainee's with the ability to practice posture, verbalization, soft hand skills, impact weapons, chemical spray and lethal force. They also provide a means for officers to practice skills in de-escalating a situation. Each trainee's scenario and reactions can be analyzed and then reviewed for training purposes. The system is portable and can be easily customized to meet the needs of the agency. The benefit of having an effective, realistic training program is to enhance public safety as well as reduce liability risks.

This is amended form last year in two areas;

1. FY change from 2021 to 2019. This change is a result of the cruiser radio change, and the need to provide interactive use of force training

2. The cost has increased from \$45,000 to \$47,000. This is due to the addition of the purchase of 2 taser related training tool that were not incuded in the prior submission

Supplemental Information

				Capital Pro	oject Request				
Project Title: I	Replacement of	f AED (Automated E	xternal Deffibrilla	tors)				Fiscal Year:	2023
Purpose:	Acquisition	(Classification:	Equipment		Status:	New Request		
	Police					Supports:	Public Safety		
Partners:	N/A					Useful Life:	More than twelve	(12) years	
				Parameters					Response
L. Are there any cost	ts to bid, design,	construct, purchase, in	stall, implement, or	otherwise comp	ete the project whi	ch are NOT incluc	led is this request?		No
2. Are there recomm	nendations or cos	sts identified by other o	lepartments which a	are NOT factored	into the request?				No
3. Does this project i	require any perm	itting by any Town or S	State agency?						No
4. If this request is fo	or Technology, ha	as the Department com	municated with ITC	, and does ITC su	pport the request?				No
5. If this request is fo	or Building Impro	vements, has the Depa	rtment communica	ted with the Build	ling Maintenance (B	3M) division, and	does BM support the I	equest?	No
5. If funded, will add	itional permaner	nt staff be required?					Total New FTE's:		No
7. If funded, will the	operating budge	t need to be increased	to cover operating	expenses?					No
8. If funded, will this	project lower the	e requesting Departme	ent's operating costs	;?					No
9. If funded, will this	project require of	ongoing assistance fror	n vendors at an add	itional expense to	o the Town which is	NOT already bud	geted?		No
10. If the project is N	IOT funded, will o	current Town revenue	be reduced?						No
11. Is specialized trai	ining or annual lie	censing required that t	he Town will need t	o pay in order to	use the asset?				No
2. Is this a project f	or which an Initia	al Eligibility Project App	lication can be filed	with the Commu	inity Preservation C	ommittee (CPC)?			No
L3. Is this a request i	in response to a (Court, Federal, or State	order?						No
L4. Is this a request i	in response to a d	documented public hea	Ith or safety condit	ion?					Yes
15. Is this a request 1	to improve or ma	ake repairs to extend th	e useful life of a bu	ilding?					No
16. Is this a request t	to purchase appa	ratus/equipment that	is intended to be pe	rmanently install	ed at the location o	f its use?			No
17. Is this a request t	to repair or other	rwise improve public p	roperty which is NO	T a building or int	rastructure?				No
18. Will any other de	epartment be req	uired to provide assist	ance in order to cor	nplete the projec	t?				No
19. If funded, will thi	is project increas	e the operating expens	e for any other dep	artment?					No
Project Cost:	\$27,832	How was the Project	Cost Determined:		In-House Estimat	e			-
Budget Impact:	Negligible impact	on the annual operation	ng expenses less tha	n \$5,000					
Project Budge	et Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility		\$0							
Design/Engineering		\$0							
and/ROW Acquisition	on	\$0							
Site Preparation		\$0							
Construction		\$0							
Construction Manag	ement	\$0							
quipment		\$23,940	\$0				\$23,94	D	
urniture, Fixtures, a	and Equipment	\$0							
Technology Hardwai	re/Software	\$0							
Other Expenses		\$3,892	\$0				\$3,89	2	
TOTAL		\$27,832	\$0	\$	D \$	0	\$0 \$27,832	,	\$0

	Capital Project Request		
Project Title:	Replacement of AED (Automated External Deffibrillators)	Fiscal Year: 2023	i
\$0			

Project Description and Considerations

This purchase is to replace all of the current AED equipment. Some of the current equipment in use is sixteen years old and at the end of the useful life cycle. We intend to purchase the same model that is carried by the Needham Fire Department allowing the equipment to be interchangable when fire personel arrive.

Othe expenses of \$3892.00 is to purchase 12 Hard Shell, watertight carrying cases and one training unit.

Supplemental Information

				Capital Projec					
		nal Protective Equipm	ent, PPE ("bunke	r gear") Replace	ment Program			iscal Year:	2019
	cquisition	Cla	assification: Eq	uipment			Amended Request fr	om the Prior CIP	
Department: Fi	-				Su		Public Safety		
Partners: Bo	pard of Selectm	en; Finance Committee			Us	eful Life:	More than eight (8) y	rears	
				Parameters					<u>Response</u>
 Are there any costs 	to bid, design,	construct, purchase, inst	all, implement, or of	therwise complete	the project which ar	e NOT included is	this request?	1	lo
		sts identified by other de		e NOT factored into	o the request?			1	lo
		nitting by any Town or Sta						1	10
		as the Department comm							lo
5. If this request is for	Building Impro	ovements, has the Depart	ment communicate	d with the Building	Maintenance (BM)	division, and does	BM support the requ	uest?	10
If funded, will addit	ional permane	nt staff be required?				٦	Total New FTE's:	1	No
7. If funded, will the o	perating budge	et need to be increased to	o cover operating ex	penses?				1	No
		ne requesting Department						1	10
9. If funded, will this p	project require	ongoing assistance from	vendors at an additi	onal expense to the	e Town which is NOT	already budgeted	?	1	٥N
10. If the project is NC	DT funded, will	current Town revenue be	e reduced?					1	No
 Is specialized train 	ing or annual li	censing required that the	Town will need to	bay in order to use	the asset?			1	No
2. Is this a project fo	r which an Initi	al Eligibility Project Applic	cation can be filed w	ith the Community	Preservation Comm	ittee (CPC)?		1	۱o
3. Is this a request in	response to a	Court, Federal, or State o	rder?					1	٥N
14. Is this a request in	response to a	documented public healt	h or safety conditior	1?				1	No
15. Is this a request to	improve or m	ake repairs to extend the	useful life of a build	ing?				1	No
16. Is this a request to	purchase appa	aratus/equipment that is	intended to be pern	nanently installed a	t the location of its ι	use?		1	٥N
17. Is this a request to	repair or othe	rwise improve public pro	perty which is NOT a	a building or infrast	ructure?			1	No
18. Will any other dep	partment be rea	quired to provide assistan	ce in order to comp	lete the project?				1	٥N
19. If funded, will this	project increas	se the operating expense	for any other depar	tment?				1	No
,	803,968	How was the Project C			-House Estimate				
Budget Impact: N	egligible impac	t on the annual operating	expenses less than	\$5,000					
Project Budget	Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility		\$0							
Design/Engineering		\$0							
and/ROW Acquisition	n	\$0							
Site Preparation		\$0							
Construction		\$0							
Construction Manage	ment	\$0							
quipment		\$303,968	\$43,424	\$43,424	\$43,424	\$43 <i>,</i> 424	\$43,424	\$43 <i>,</i> 424	\$43 <i>,</i> 4
urniture, Fixtures, ar		\$0							
echnology Hardware	e/Software	\$0							
Other Expenses		\$0							
TOTAL		\$303,968	\$43,424	\$43,424	\$43,424	\$43,424	\$43,424	\$43,424	\$43,42

	Capital Project Request		
Project Title:	Ongoing Personal Protective Equipment, PPE ("bunker gear") Replacement Program	Fiscal Year:	2019
<u>.</u>	Project Description and Considerations		

This request is to replace Personal Protective Equipment, PPE ("bunker gear") for 20% of all firefighting personnel on an annual basis. This is to ensure the life span of the equipment does not exceed the 10 year guideline. Ensembles issued prior to the recent purchase of a second set of PPE are approaching this time frame for many of our members. Fortunately, with the number of recent and forthcoming new hires, about a third of the Department have been issued PPE within the past 5 years. All fire personnel are in the process of being issued a second set of PPE allowing them to properly maintain this equipment in a healthy manner.

In FY 2018 a request was approved for the purchase of a second set of Personal Protective Equipment, PPE ("bunker gear") for all fire line personnel. The PPE requested includes boots, firefighting pants and coat. Our firefighting personnel regularly work in highly toxic environments caused by spills, chemical releases and the products of combustion. Numerous studies have found the number of carcinogens and other toxins associated with the fire ground to be extremely high. Further, the toxicity of these carcinogens appears to be much greater and more concentrated today, due to the wide spread use of synthetic and petroleum based building materials and furnishings found in modern construction. These unhealthy contaminents, chemicals, toxins and carcinogens adhere to our firefighter's "bunker gear", thus creating a lingering exposure concern for not only the firefighters , but to members of the public they serve, as they respond to calls for service. Recent research by NIOSH, CDC, National Fallen Firefighters Foundation and others clearly points to the increased risks of cancer due to firefighters wearing contaminated PPE adds to this risk. The following links may be helpful in understanding this research:

http://firefightercancersupport.org/wp-content/uploads/2013/08/Taking-Action-against-Cancer-in-the-Fire-Service.pdf

http://www.cdc.gov/niosh/firefighters/ffCancerStudy.html

http://www.everyonegoeshome.com/wp-content/uploads/sites/2/2016/03/Cancer-Alliance-January-2015.pdf

http://www.cdc.gov/niosh/pgms/worknotify/pdfs/ff-cancer-factsheet-final.pdf

Ignoring such reasearch could be considered to negligent going forward.

Our Department has taken additional measures to help reduce the risk of cancer, including outfitting each piece of apparatus with after action wipes to quickly remove carcinogens from responsers skin while still in the field. However, current safety practices dictate that firefighters be issued two sets of PPE, so that once contaminated the equipment can be washed in extracters anddriedd in dryers designed specifically for that purpose. Maintaining a second set of PPE allows for contaminated equipment to be washed and dried properly, while allowing personnel to remain available to respond to calls. Research has found that wet PPE creates a breeding ground for unhealthy bacteria, as well, which is also harmful.

Fulfillment of this request will be greatly beneficial to the health and wellness of our personnel and the public we serve. In doing so, the exposure to occupational carcinogens will be reduced with the potential for a reduction in the number of our members contracting cancer from the work place. In turn, this could result in a corresponding reduction in cancer related disability pensions saving funds in the future.

				Capital Proje	ect Request					
Project Title:	Asa Small Field	Renovation						Fiscal Year:		2020
Purpose:	Design/Engineer	ring	Classification: Ir	nfrastructure	St	tatus:	Amended Req	uest from the Prio	r CIP	
Department:		arks and Forestry			Su	upports:	Culture and Le	isure		
Partners:	Park and Recreat	tion, Needham Youth S	ports Groups		U	seful Life:	More than twe	enty-five (25) years		
				Parameters						Response
. Are there any co	osts to bid, design,	construct, purchase, in	nstall, implement, or o	otherwise complet	e the project which a	re NOT included	l is this request?		No	
		sts identified by other		re NOT factored in	to the request?				No	
		nitting by any Town or							Yes	
. If this request is	for Technology, h	as the Department cor	nmunicated with ITC,	and does ITC supp	ort the request?				No	
. If this request is	for Building Impro	ovements, has the Dep	artment communicate	ed with the Buildin	g Maintenance (BM)	division, and do	es BM support tl	he request?	No	
,		nt staff be required?					Total New FTE	' s: 0	No	
. If funded, will th	ne operating budge	et need to be increased	I to cover operating e	xpenses?					No	
. If funded, will th	nis project lower th	ne requesting Departm	ent's operating costs?	?					No	
. If funded, will th	nis project require	ongoing assistance fro	m vendors at an addit	tional expense to t	he Town which is NO '	T already budge	ted?		No	
		current Town revenue							No	
1. Is specialized tr	raining or annual l	icensing required that	the Town will need to	pay in order to us	e the asset?				No	
 Is this a project 	t for which an Initi	al Eligibility Project Ap	plication can be filed	with the Communi	ty Preservation Comn	nittee (CPC)?			Yes	
3. Is this a reques	st in response to a	Court, Federal, or State	e order?						No	
		documented public he							No	
		ake repairs to extend t		-					No	
		aratus/equipment that				use?			No	
		erwise improve public p		-	structure?				No	
		quired to provide assist							No	
.9. If funded, will t		se the operating expen	se for any other depa						No	
Project Cost:	\$186,000	How was the Project			Hired Consultant					
<u> </u>		t on the annual operat	ing expenses less thar	n \$5,000						
•	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibility		\$0								
esign/Engineering	-	\$34,000		\$34,000						
and/ROW Acquisi	ition	\$0								
ite Preparation		\$0								
onstruction		\$152,000			\$152,000					
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures,	, and Equipment	\$0								
echnology Hardw	/are/Software	\$0								
Other Expenses		\$0								
этнег Ехрепьез										

Capital Project Request

Project Title: Asa Small Field Renovation

Fiscal Year:

2020

Project Description and Considerations

This project will address field deficiencies on the Asa Small ball diamond at the DeFazio complex. The project will include striping, regrading, amending soils, a new baseball skin surface, and a new irrigation system. The field conditions were not addressed as part of the Field of Dreams project. This project may include additional amenities funded by user groups including field lights, a score board, bleachers, and a larger batting cage.

DPW and the Parks and Forestry Division did a thorough review of their workload over the next five years in order to prioritize their schedule based on the volume of projects and their timing. Due to this review, it has been decided this project is going to be pushed back a year. This additional time will also allow the Division to work with the user groups to identify any value added items.

This project may require permitting from the Conservation Commission, Planning Board, Zoning Board of Appeals, and Building Department.
 This project may be eligible for Community Preservation funds under Recreation.

			Capital Proje	ect Request				
Project Title: Athlet	c Facility and Public Recreat	ion Improvements				F	iscal Year:	2019
urpose: Constru	ction	Classification: In	nfrastructure	St	atus:	Amended Request f	rom the Prior CIF)
epartment: Public V	Vorks - Parks and Forestry			Si	upports:	Culture and Leisure		
artners: Park an	d Recreation			U	seful Life:	More than twelve (1	2) years	
			Parameters					<u>Response</u>
. Are there any costs to bi	d, design, construct, purchase, i	nstall, implement, or o	otherwise complet	e the project which a	re NOT included is	this request?		No
. Are there recommendati	ons or costs identified by other	departments which a	re NOT factored in	to the request?				No
. Does this project require	any permitting by any Town or	State agency?						Yes
. If this request is for Tech	nology, has the Department cor	nmunicated with ITC,	and does ITC supp	ort the request?				No
. If this request is for Build	ing Improvements, has the Dep	artment communicate	ed with the Buildin	g Maintenance (BM)	division, and does	BM support the req	uest?	No
. If funded, will additional	permanent staff be required?				1	Total New FTE's: 0)	No
. If funded, will the operat	ing budget need to be increased	to cover operating e	xpenses?					No
. If funded, will this projec	t lower the requesting Departm	ent's operating costs?						No
	t require ongoing assistance fro		tional expense to t	he Town which is NO	T already budgeted	!?		No
0. If the project is NOT fur	ded, will current Town revenue	be reduced?						No
	annual licensing required that							No
Is this a project for which	h an Initial Eligibility Project Ap	plication can be filed v	with the Communi	ty Preservation Comr	nittee (CPC)?			Yes
3. Is this a request in respo	onse to a Court, Federal, or State	e order?						No
	onse to a documented public he							No
· · · · · · · · · · · · · · · · · · ·	ove or make repairs to extend t		-					No
	hase apparatus/equipment that				use?			No
	ir or otherwise improve public p			structure?				No
	ent be required to provide assis							Yes
9. If funded, will this proje	ct increase the operating expen	se for any other depa						No
roject Cost: \$5,276,				Hired Consultant				
	le impact on the annual operat	ing expenses less thar	n \$5,000					
Project Budget Elem	, v	2019	2020	2021	2022	2023	2024	2025
lanning/Feasibility	\$0							
esign/Engineering	\$214,500	\$55,000		\$52,500	\$107,000			
and/ROW Acquisition	\$0							
te Preparation	\$0							
onstruction	\$5,062,000	\$510,000	\$2,880,000		\$570,000	\$1,102,000		
onstruction Management	\$0							
quipment	\$0							
urniture, Fixtures, and Equ	-							
echnology Hardware/Soft								
Other Expenses	\$0							
OTAL	\$5,276,500	\$565,000	\$2,880,000	\$52,500	\$677,000	\$1,102,000	\$	

Capital Project Request	Final Vacuu	2010
oject Title: Athletic Facility and Public Recreation Improvements Project Description and Considerations	Fiscal Year:	2019
The Department of Public Works and Park and Recreation have developed a maintenance plan for all fields, which includes new construction, to rrigation, drainage improvements, and equipment replacement or repair (bleachers, fences/backstops, player benches, and miscellaneous equi		
<u>-Y19</u> Claxton Field: Upgrade field lighting system to more energy efficient lights C onstruction \$510,000		
The costs for Claxton Field upgrades have increased due to the original cost estimate not being inclusive of installation.		
Furf Field Replacement at DeFazio Field & Memorial Park: remove the existing turf carpet, regrade, and install new artificial field turf Design \$55,000		
The costs for the design of the turf field replacement at DeFazio and Memorial Park decreased as a result of a quote from a prequalified consult	ant.	
<u>Y20</u> Furf Field Replacement at DeFazio Field & Memorial Park: remove the existing turf carpet, regrade, and install new artificial field turf Construction \$2,500,000		
Cricket Field: Drainage and field renovation for Field #2, irrigation renovation for both fields C onstruction \$380,000 The construction of the Cricket Field drainage and field renovation for field #2 is being pushed back to FY20, pending the completion of the desi	gn. The increase in costs was or	iginally
disclosed in early 2017 and is being explored through the design process.		
<u>Y21</u> McLeod Field: repair drainage, amend soils, and install new sod Design \$35,000		
Claxton: Softball Skin Renovation Fields 1 & 2 Design \$17,500		
<u>-Y22</u> McLeod Field: repair drainage, amend soils, and install new sod Construction \$450,000		
Claxton: Softball Skin Renovation Fields 1 & 2 Construction \$120,000		
Renovation of fields at Eliot and Broadmeadow; remediate drainage issues at Broadmeadow Design \$107,000		

ect Title: Athletic Facility and Public Recreation Improvements	
	Fiscal Year:
/23	
enovation of fields at Eliot and Broadmeadow; remediate drainage issues at Broadmeadow	
onstruction \$1,102,000	
DDITIONAL FUTURE PROJECTS:	
eedham Heights Common Renovation	
esign of sidewalks, irrigation, landscape improvements, hardscape, electrical and lighting, park benches	
very Field	
nprove parking (DPW road project) after the new Fire Station is constructed	
eFazio Complex	
stall walking path with protective netting to DeFazio #1	
igh Rock Fields	
ew backstop, player benches, perimeter fencing	
eFazio Tot Lot	
nprove fencing	
harles River Water Treatment Plant	
litigation of red pines tree stand in the well fields	
illside and Mitchell	
enovation of fields	
ike, Ridge Hill, and Hillside	
onstruction of new athletic fields	
Conservation Commission permitting can be satisfied by preparing the pipe and installing hay bales and sedimentation barriers; Plan	nning Board filing may be required.
2. All items except for Turf Fields are eligible for Community Preservation Funds.	
3. The Department of Public Works will be partnering with Park and Recreation on each of these projects.	

				Capital Proj	ect Request					
Project Title:	DPW Central A	ve. Storage Facility						Fiscal Year:		2019
Purpose:	Design/Engineer	ing C	lassification: Bu	ilding		Status:	New Request			
Department:	Public Works - Hi	ghway				Supports:	Other (see belo	ow for information)		
Partners:	Public Works, PP	BC				Useful Life:	More than twe	enty-five (25) years		
				Parameters					Re	esponse
L. Are there any co	osts to bid, design,	construct, purchase, ins	stall, implement, or of	therwise comple	te the project whic	h are NOT includ	ed is this request?		No	
. Are there recon	nmendations or cos	sts identified by other d	epartments which are	e NOT factored i	nto the request?				No	
. Does this projec	ct require any perm	itting by any Town or S [.]	tate agency?						Yes	
. If this request is	s for Technology, ha	as the Department com	municated with ITC, a	ind does ITC sup	port the request?				No	
. If this request is	s for Building Impro	vements, has the Depar	rtment communicate	d with the Buildi	ng Maintenance (B	M) division, and	does BM support tl	he request?	Yes	
. If funded, will a	dditional permaner	nt staff be required?					Total New FTE	' s: 0	No	
. If funded, will th	he operating budge	t need to be increased t	to cover operating ex	penses?					No	
. If funded, will th	his project lower th	e requesting Departme	nt's operating costs?						No	
. If funded, will th	his project require o	ongoing assistance from	vendors at an additi	onal expense to	the Town which is	NOT already budg	geted?		No	
0. If the project is	s NOT funded, will	current Town revenue b	e reduced?						No	
1. Is specialized t	raining or annual li	censing required that th	e Town will need to p	oay in order to u	se the asset?				No	
 Is this a projec 	t for which an Initia	al Eligibility Project Appl	ication can be filed w	ith the Commun	ity Preservation Co	ommittee (CPC)?			No	
3. Is this a reques	st in response to a (Court, Federal, or State	order?						No	
4. Is this a reques	st in response to a o	documented public heal	Ith or safety conditior	ו?					No	
5. Is this a reque	st to improve or ma	ake repairs to extend the	e useful life of a build	ing?					No	
6. Is this a reques	st to purchase appa	aratus/equipment that is	s intended to be pern	nanently installe	d at the location of	its use?			No	
7. Is this a reques	st to repair or othe	rwise improve public pr	operty which is NOT a	a building or infr	astructure?				No	
8. Will any other	department be rec	uired to provide assista	nce in order to comp	lete the project?					Yes	
9. If funded, will	this project increas	e the operating expense	e for any other depar	tment?					No	
Project Cost:	\$7,900,000	How was the Project	Cost Determined:		Hired Consultant					
udget Impact:	May increase ann	nual operating expenses	by more than \$100,0	000						
Project Buo	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibilit	ty	\$0								
esign/Engineerin	ng	\$650,000	\$650,000							
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
onstruction		\$7,250,000	\$7,250,000							
onstruction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures	s, and Equipment	\$0								
echnology Hardy	vare/Software	\$0								
Other Expenses		\$0								

Capital Project Request

Project Title: DPW Central Ave. Storage Facility

Fiscal Year:

2019

Project Description and Considerations

This request is for the Design/Engineering of the DPW Central Avenue Storage Facility.

The storage facility will address the needs of a modernized DPW facility and organization, including providing shelter for Town equipment which will increase the service life. Due to the construction of the Public Service Administration Building adjacent to the main DPW facility and water building, a significant amount of storage area for the DPW was sacrificed. Currently, materials that were displaced are being stored throughout Town in less than optimal conditions. With the additional proposed build out of the main DPW facility at 470 Dedham Avenue, including the relocation of the fuel island, even more laydown and staging space has been lost.

The DPW developed a comprehensive vehicle and equipment list, including towed, ride-on, and small portable equipment along with classified storage type (i.e. garaged vs. covered), and presented equipment storage scenarios based on the season.

The FY19 request for Design/Engineering funds has increased due to:

- Increased heated space.
- Preferred location, factoring in RTS operations.
- Market adjustments.
- Additional escalation.

FY19

Design/Engineering \$650,000

The Department plans to request Construction funds at the FY19 Special Town Meeting. The work would take place from February through October 2019.

<u>FY19 STM</u> Construction \$7,250,000

This request supports public safety, the transportation network, and utilities.

3. A building permit will be required. Conservation Commission permitting may also be required.

- 5. This request for a new building is supported by the Building Maintenance division.
- 18. The PPBC and DPW will be required to provide assistance in order to complete the project.

				Capital Proj	ect Request				
	DPW Complex							scal Year:	2020
	Design/Engineering		Classification: B	uilding		Status:	Informational Only D		
Department:	Public Works - High	nway				Supports:	Other (see below for i		
artners:	РРВС					Useful Life:	More than twenty-five	e (25) years	
				Parameters					Response
. Are there any cos	sts to bid, design, co	onstruct, purchase, in	stall, implement, or o	otherwise complet	e the project which	ch are NOT include	d is this request?	1	Yes
. Are there recom	mendations or costs	identified by other d	epartments which a	re NOT factored in	to the request?			,	Yes
. Does this project	require any permit	ting by any Town or S	tate agency?					,	Yes
		the Department com							Yes
. If this request is f	for Building Improve	ements, has the Depa	rtment communicate	ed with the Buildin	g Maintenance (B	M) division, and c	loes BM support the requ	est?	Yes
5. If funded, will ad	ditional permanent	staff be required?					Total New FTE's: 1.	5	Yes
. If funded, will the	e operating budget i	need to be increased	to cover operating e	xpenses?				,	Yes
3. If funded, will thi	is project lower the	requesting Departme	nt's operating costs?)					No
). If funded, will thi	is project require on	going assistance from	n vendors at an addit	ional expense to t	he Town which is	NOT already budg	eted?		No
0. If the project is	NOT funded, will cu	irrent Town revenue l	pe reduced?						No
1. Is specialized tra	aining or annual lice	ensing required that the	ne Town will need to	pay in order to us	e the asset?				No
2. Is this a project	for which an Initial	Eligibility Project App	lication can be filed	with the Communi	ty Preservation Co	ommittee (CPC)?			No
3. Is this a request	in response to a Co	ourt, Federal, or State	order?						No
4. Is this a request	in response to a do	cumented public hea	Ith or safety condition	on?					No
15. Is this a request	to improve or make	e repairs to extend th	e useful life of a buil	ding?				'	Yes
L6. Is this a request	to purchase appara	atus/equipment that i	s intended to be per	manently installed	at the location of	f its use?			No
17. Is this a request	to repair or otherw	vise improve public pr	operty which is NOT	a building or infra	structure?				No
18. Will any other d	lepartment be requi	ired to provide assista	ance in order to com	plete the project?				1	Yes
19. If funded, will th	his project increase	the operating expens	e for any other depa	rtment?					No
Project Cost:	\$37,950,000	How was the Project	Cost Determined:		Hired Consultant				
Budget Impact:	May increase annu	al operating expenses	between \$5,001 an	d \$25,000					
<u> </u>	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility	/	\$0							
Design/Engineering	5	\$2,950,000		\$2,950,000					
and/ROW Acquisit	ion	\$0							
Site Preparation		\$35,000,000				\$35,000,0	00		
Construction		\$0							
Construction Mana	gement	\$0							
quipment	-	\$0							
urniture, Fixtures,	and Equipment	\$0							
,	are/Software	\$0							
Technology Hardwa									
Technology Hardwa Other Expenses		\$0							

Capital Project Request

Project Title: DPW Complex

Fiscal Year:

2020

Project Description and Considerations

The Public Services Administration Building (PSAB, 500 Dedham Ave) was occupied by the DPW in November 2011, eliminating the space problems and air quality issues experienced on the second floor of the DPW Operations Building (470 Dedham Ave). However, deficiencies continue to exist throughout the building internally and the DPW site externally. The poor condition of the current building, unmet equipment and vehicle storage, and stormwater quality issues require a solution. Ultimately, the expansion and renovation of the DPW Operations Building (470 Dedham Ave) and site, referred to as DPW Phase II, will be required to address the need for stormwater quality mitigation as well as storage and maintenance considerations.

In 2006, the DPW was made aware that municipal DPW facilities were no longer exempt from National Pollutant Discharge Elimination System (NPDES) stormwater requirements regulating public works facilities under the Federal Highway Act. All municipal DPW facilities are now required to comply with stormwater and wastewater discharge requirements (quality). In 2009, Town Meeting approved \$42,000 for engineering and design for stormwater quality improvements on a portion of the DPW site.

In FY15, Town Meeting approved \$40,000 for a feasibility study for the appropriate location(s) for a facility to provide the various DPW services. This study will evaluate the current facility and other options for the location of various DPW operations. The current DPW building is over 50 years old. To continue using this facility, the major building systems including electrical, plumbing, and HVAC require replacement as well as a structural upgrade for seismic events. The feasibility study resolving these issues may involve the relocation of DPW services, renovation of the existing building, replacing the existing building, and providing other services in different locations throughout Town. The final result will address the needs of a modernized DPW facility and organization, including providing shelter for Town equipment which will increase the service life, and resolve any existing stormwater and wastewater management issues at the current location.

FY20 DPW Facility Design/Engineering \$2,950,000

FY21 No funding request

FY22

DPW Facility Construction \$35,000,000

Capital Project Request

Project Title: DPW Complex

Supplemental Information

This request supports culture and leisure, public safety, transportation network and utilities.

1. The cost to construct off-site storage will be made under a separate request.

2. There are costs for technology, maintenance etc. that may not be included in this request.

3. Conservation Commission permitting may be required. Building permit may be required.

4. Technology will be necessary for a DPW Facility.

5. This request is for a DPW Facility.

6. It may facilitate the addition of maintenance staff.

7. There may be additional expenses to maintain the building.

15. This will be to extend the useful life of the DPW Facility.

18. This will require input from all fuel users, technology, facilities construction and operations.

Fiscal Year:

2020

				Capital Project	t Request				
Project Title:	DPW Specialty I	Equipment						iscal Year:	2019
urpose:	Acquisition	C	lassification: Equ	uipment	Sta	atus:	Amended Request fr	om the Prior CIP	
epartment:	Public Works - Ga	rage			Su	• •	Transportation Netwo		
artners:					Us	eful Life:	More than eight (8) y	rears	
				Parameters					Response
. Are there any cos	ts to bid, design, o	construct, purchase, ins	stall, implement, or ot	herwise complete t	the project which are	e NOT included is	s this request?		No
. Are there recomn	nendations or cos	ts identified by other d	epartments which are	NOT factored into	the request?				No
. Does this project	require any perm	itting by any Town or S [.]	tate agency?						No
. If this request is fo	or Technology, ha	s the Department com	municated with ITC, a	nd does ITC suppor	t the request?				No
. If this request is fo	or Building Improv	vements, has the Depar	rtment communicated	d with the Building I	Maintenance (BM) o				No
. If funded, will add	litional permanen	it staff be required?					Total New FTE's: 0		No
. If funded, will the	operating budget	t need to be increased t	to cover operating exp	penses?					No
. If funded, will this	project lower the	e requesting Departme	nt's operating costs?						No
. If funded, will this	s project require c	ongoing assistance from	n vendors at an additio	onal expense to the	Town which is NOT	already budgete	d?		No
). If the project is I	NOT funded, will o	current Town revenue b	be reduced?						No
	-	censing required that th							No
 Is this a project f 	^f or which an Initia	I Eligibility Project Appl	ication can be filed wi	ith the Community	Preservation Comm	ittee (CPC)?			No
		Court, Federal, or State							No
		locumented public heal							No
		ke repairs to extend the		-					No
		ratus/equipment that is		,		ise?			No
		wise improve public pr		-	ructure?				No
		uired to provide assista							No
9. If funded, will th	is project increase	e the operating expense							No
	\$369,500	How was the Project			dustry References				
<u> </u>		on the annual operatin	g expenses less than s	\$5,000			-		
Project Budg	et Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
lanning/Feasibility		\$0							
esign/Engineering		\$0							
and/ROW Acquisiti	on	\$0							
te Preparation		\$0							
onstruction		\$0							
onstruction Manag	gement	\$0							
luipment		\$369 <i>,</i> 500	\$76,500	\$90,000	\$163,000	\$40,000			
urniture, Fixtures, a	and Equipment	\$0							
echnology Hardwa	re/Software	\$0							
ther Expenses		\$0							
инет Ехрепьез									

oject Title: DPW Specialty Equipment Capital Project Request	Fiscal Year:	2019
Project Description and Considerations		2019
This request is for all large equipment that fits the definition of capital but is not included in the rolling stock. These pieces of equipment are no and increased its funding request for FY20.	ot plated. The Town received an	updated quot
<u>Y19</u> Jnit #344 Parks & Forestry Specialty Mower: large machine that performs second cut on highly maintained multipurpose athletic fields Equipment \$76,500		
Y20 Jnit #351 Parks & Forestry Tractor: multi-use utility equipment Equipment \$90,000		
Y21 New piece of Highway equipment .oader mounted snow blower: clears gutter lines, parking lots, loading trucks Equipment \$163,000		
<u>Y22</u> Jnit #334 Parks & Forestry specialty Mower: small machine that performs second cut on highly maintained baseball fields E quipment \$40,000		

				Capital Proje	ct Request					
Project Title:	Permanent Mes	ssage Boards					l	Fiscal Year:	2	2020
Purpose:	Acquisition	Cla	assification: Te	echnology	Sta	atus:	Amended Request f	rom the Prior C	IP	
Department:	Public Works - En	gineering			Su	pports:	General Governmen	it		
Partners:	Town Manager's (Office, ITC			Us	eful Life:	More than eight (8)	years		
				Parameters					Re	<u>sponse</u>
L. Are there any cos	ts to bid, design, o	construct, purchase, inst	all, implement, or o	otherwise complete	the project which ar	e NOT included is	this request?		No	
. Are there recomn	nendations or cos	ts identified by other de	partments which ar	e NOT factored int	o the request?				No	
B. Does this project	require any perm	itting by any Town or Sta	ite agency?						Yes	
		s the Department comm							Yes	
. If this request is fo	or Building Improv	vements, has the Depart	ment communicate	ed with the Building	g Maintenance (BM)	division, and does	BM support the rec	quest?	No	
. If funded, will add	litional permanen	t staff be required?				1	Fotal New FTE's:	0	No	
		t need to be increased to							Yes	
3. If funded, will this	project lower the	e requesting Departmen	t's operating costs?						No	
). If funded, will this	s project require c	ongoing assistance from	vendors at an additi	ional expense to th	e Town which is NOT	already budgeted	!?		No	
	,	current Town revenue be							No	
1. Is specialized tra	ining or annual lic	censing required that the	Town will need to	pay in order to use	the asset?				No	
2. Is this a project f	or which an Initia	l Eligibility Project Applic	ation can be filed v	vith the Communit	y Preservation Comm	ittee (CPC)?			No	
3. Is this a request	in response to a C	Court, Federal, or State o	rder?						No	
		locumented public healt							No	
		ke repairs to extend the		-					No	
		ratus/equipment that is				ıse?			Yes	
		wise improve public pro		-	tructure?				Yes	
		uired to provide assistan							Yes	
		e the operating expense		rtment?					Yes	
,	\$220,000	How was the Project C			Current Contract					
		on the annual operating		\$5,000						
Project Budg	et Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	2025
lanning/Feasibility		\$0								
Design/Engineering		\$0								
and/ROW Acquisiti	on	\$0								
ite Preparation		\$0								
construction		\$220,000		\$52,000	\$54,000	\$56,000	\$58,000			
onstruction Manag	gement	\$0								
quipment		\$0								
urniture, Fixtures, a	and Equipment	\$0								
echnology Hardwa	re/Software	\$0								
Other Expenses		\$0								
			\$0		\$54,000	\$56,000			\$0	

Capital Project Request

Project Title: Permanent Message Boards

Fiscal Year:

2020

Project Description and Considerations

In support of the Board of Selectmen's goals, this request is for up to seven permanently installed message boards to communicate with residents. This will alleviate competition for the current message boards. The new message boards will have the capacity to be programmed remotely and simultaneously from a Town work station or a laptop. There will be minimal operating costs, including a data plan to allow for remote updates and electricity for each location.

Currently the Public Works Department has three mobile message boards that are used for large construction projects. These message boards are removed from construction projects and relocated to various sites in Town when requested for non-construction notifications to residents and commuters. The existing message boards are difficult to maneuver, time consuming to program, and often not available for non-emergency notices.

At the May 2014 Annual Town Meeting, funding was approved for a Permanent Message Board pilot program at the RTS. This message board was installed in the Spring of 2016. The Town is presently piloting the use of the board and has decided to delay an additional year before requesting funding for more boards.

The increase in cost from the prior year's submission is a reflection of the actual costs of the board, which include the double sided board that the Town opted for, and the stone wall that serves both an aesthetic and a structural function.

FY20

One Message Board at Dedham St. and South St. Construction \$52,000

FY21

One Message Board at Central Avenue at Great Plain Avenue Construction \$54,000

<u>FY21</u>2

One Message Board at the Public Safety Building, School Street and Chestnut Street Construction \$56,000

<u>FY23</u> One Message Board at Fire Station #2 **Construction \$58,000**

<u>FY24</u>

One Message Board at Greendale Avenue at Great Plain Avenue

3. Conservation Commission permitting may be required for some locations. Depending on the location, a building permit and Design Review Board Approval may be required.

4. ITC will be adding new message boards to existing software for programming.

7. There will be minimal operating costs for these boards which include cellular service for remote programming and electricity.

16. These message boards will be permanently installed at the chosen locations.

			Capital Projec	t Request				
Project Title: Public Works	Infrastructure Program	n				Fis	scal Year:	2019
Purpose: Construction	C	lassification: In	frastructure	St	atus:	Amended Request fro	m the Prior CIP	
Department: Public Works -	Highway			Su	upports:	Fransportation Netwo	rk	
Partners:				U	seful Life:	More than twelve (12)	years	
			Parameters					<u>Response</u>
. Are there any costs to bid, desig	gn, construct, purchase, ins	stall, implement, or c	otherwise complete	the project which a	re NOT included is	this request?		No
. Are there recommendations or	costs identified by other de	epartments which ar	e NOT factored into	o the request?				No
 Does this project require any period 	ermitting by any Town or St	tate agency?						Yes
 If this request is for Technology 	, has the Department com	municated with ITC,	and does ITC suppo	rt the request?				No
. If this request is for Building Im	provements, has the Depar	rtment communicate	ed with the Building	Maintenance (BM)	division, and does	BM support the requ	est?	No
. If funded, will additional perma	nent staff be required?				1	Total New FTE's: 0		No
. If funded, will the operating buc	lget need to be increased t	to cover operating ex	<pre></pre>					No
If funded, will this project lower	the requesting Departme	nt's operating costs?						No
. If funded, will this project requi	re ongoing assistance from	vendors at an addit	ional expense to the	e Town which is NO	r already budgeted	?		No
0. If the project is NOT funded, w	vill current Town revenue b	e reduced?						No
1. Is specialized training or annua	I licensing required that th	e Town will need to	pay in order to use	the asset?				No
Is this a project for which an Ir	iitial Eligibility Project Appl	ication can be filed v	vith the Community	Preservation Comn	nittee (CPC)?			No
3. Is this a request in response to	a Court, Federal, or State	order?						No
4. Is this a request in response to	a documented public heal	Ith or safety conditio	n?					Yes
5. Is this a request to improve or	make repairs to extend the	e useful life of a build	ding?					No
6. Is this a request to purchase a					use?			No
7. Is this a request to repair or ot	herwise improve public pro	operty which is NOT	a building or infrast	ructure?				No
8. Will any other department be								No
19. If funded, will this project incre	ease the operating expense	e for any other depa	rtment?					Yes
Project Cost: \$9,906,500	How was the Project			-House Estimate				
Budget Impact: Negligible imp	act on the annual operatin	g expenses less than	\$5,000					
Project Budget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
lanning/Feasibility	\$0							
Design/Engineering	\$556,000	\$203,500		\$83,000		\$269,500		
and/ROW Acquisition	\$0							
ite Preparation	\$0							
onstruction	\$9,350,500	\$1,570,000	\$1,985,500	\$2,237,000	\$2,022,000	\$1,536,000		
onstruction Management	\$0							
quipment	\$0							
urniture, Fixtures, and Equipmen	t \$0							
echnology Hardware/Software	\$0							
Other Expenses	\$0							

Capital Project Request

Project Title: Public Works Infrastructure Program

Project Description and Considerations

The Public Works Infrastructure Program allows the Department of Public Works to make improvements and repairs to Town infrastructure, including but not limited to roads, bridges, sidewalks, intersections, drains, brooks, and culverts. Each program is detailed below.

Street Resurfacing:

This program is essential to improve the structural and surface integrity of the Town's approximately 279 lane miles of accepted streets. The Town targets 17 lane miles per year to get a desired life cycle of 15 to 20 years. The primary strategy of this program is asphalt paving and incidental work. Incidental work may include asphalt berm curb, new grass shoulders, corner reconstruction including handicapped ramps, minor drainage improvements, street sign replacement, traffic markings, and signs.

Applying this repair strategy in a timely manner will extend the useful life of the roadway for up to 15 years. Installing a monolithic asphalt berm curb better defines the edge of the road, improves drainage, and protects the shoulder from erosion.

The Town targets roads with a Pavement Condition Index (PCI) of below 70 for resurfacing or specialized treatment. The Town targets a PCI of 60 or below for repair/renovation. The Town's goal is to maintain its roadway network at an average PCI rating of 75.

The cost per lane mile for resurfacing in FY18 is \$77,000 or more per lane mile. A basic asphalt overlay at 1.5 inches with asphalt berm curb and casting adjustments is \$59,000 per lane mile.

The average useful life for asphalt paving is 15 years.

FY19 - \$820,000 FY20 - \$840,500 FY21 - \$862,000 FY22 - \$884,000 FY23 - \$906,000

Traffic Signal & Intersection Improvements:

The costs are estimated by Engineering and require conceptual scope of work for project level costs that have not yet been determined. This program will fund traffic signal improvements, intersection improvements, and new traffic signal installations where none currently exist. The design for Highland Avenue at West Street was not completed prior to submission of this CIP and the construction has been pushed out to FY21. In FY19, DPW will evaluate intersection prioritization for future projects

FY21

Highland Avenue at West Street Construction \$575,000

FY23

Central Avenue at Great Plain Avenue **Design/Engineering \$166,000**

Section 3 - 53

Fiscal Year: 2019

Capital Project Request

Project Title: Public Works Infrastructure Program

Fiscal Year:

2019

Supplemental Information

Future Projects:

Central Avenue at Great Plain Avenue Construction Great Plain Avenue at Greendale Avenue Kendrick Street at Third Avenue Kendrick Street at Fourth Avenue

Sidewalk Program:

This program requires funding for the Town to address the failing network of sidewalks throughout the community. There are over 130 miles of accepted sidewalks in Needham. Over half of the Town's sidewalks do not comply with current standards and require significant improvements including the installation of handicapped ramps. Sidewalk improvements must comply with Federal and State laws and construction standards. The cost for sidewalk rehabilitation and reconstruction can vary significantly. Current estimates have identified over \$20,000,000 in backlogged sidewalks in need of repair.

FY18 contract pricing to reconstruct one mile of asphalt sidewalk with incidental costs is estimated to be **\$232,320 per mile (\$44.00/lf**). Contract pricing to install a mile of granite curb with minor drainage improvements and incidental costs is estimated to be **\$274,560 per mile (\$52.00/lf**). These costs do not include engineering, design, tree removal and replacement, major drainage improvements, or major public or private property adjustments.

The Town conducted a study with funding from FY16 to analyze and make recommendations about the Town's existing sidewalk infrastructure. The conclusions of that study identified 80 miles of sidewalk in a condition that would warrant reconstruction. The current funding for FY19 was increased over the prior year's submission to begin addressing this deficiency.

FY19 - \$500,000 FY20 - \$512,500 FY21- \$525,000 FY22 - \$540,000 FY23 - \$555,000

Storm Drain Capacity Improvements:

This program provides funding to improve roadway drainage capacity. The March 2002 Stormwater Master Plan identified a number of areas throughout Needham where improvements are required to resolve existing problems with flooding and illicit discharge. Locations for improvements have been prioritized within the plan. This funding request also includes, but is not limited to, the installation of additional storm drains and the replacement and extension of drains on Manning Street, Hoover Road, Concord Road, and Burnside Road with larger capacity drains. Since the issuance of the 2002 Stormwater Master Plan, numerous multi-unit developments have been built or planned in the Town. These developments include new roads with drainage structures and roof or sump connections that are then connected to existing Town systems. These new connections have increased the load on the Town's drainage system and caused flooding in some areas.

Due to extensive drainage repairs that were required on Greendale Ave, funds for FY18 were diverted from Ardmore Road and Hunnewell Street to complete the work, and this project is being requested again for FY19.

<u>FY19</u>

Ardmore Road and Hunnewell Street or Other Prioritized Projects Design/Engineering \$103,500

<u>FY20</u>

		Capital Project Request		
roject Title: Public Works In	frastructure Program		Fiscal Year:	2019
Ardmore Road and Hunnewell Stree Construction \$362,500	et or Other Prioritized Projects			
FY21 Concord Street and Burnside Road Design/Engineering \$83,000	or Other Prioritized Projects			
FY22 Concord Street and Burnside Road Construction \$523,000	or Other Prioritized Projects			
FY23 TBD or Other Prioritized Projects Design/Engineering \$103,500				
	nprovements, Engineering and Construe enue (Areas 3 & 7), Oxbow Road (Area 9			
replacement of existing culverts that	t have deteriorated over time and are r		ered through investigation work. These projects will ir and capacity issues in the immediate vicinity. This proj e remediation.	
Drainage work on Greendale Avenu to FY19 and FY20.	e was addressed using funding from thi	is portion of the Infrastructure Program. The engir	neering and construction at 470 South Street has been	n reassigne
FY19 470 South Street Design/Engineering \$100,000				

FY20 470 South Street Construction \$270,000

FY21 TBD (Reserved for projects related to Labor Day 2013 Flooding) Construction: \$75,000

<u>FY22</u>

TBD (Reserved for projects related to Labor Day 2013 Flooding)

Capital Project Request

Project Title: Public Works Infrastructure Program

Fiscal Year:

2019

Construction \$75,000

<u>FY23</u>

TBD (Reserved for projects related to Labor Day 2013 Flooding) Construction \$75,000

Brooks and Culverts – Repair and Maintenance:

It is the intention of the DPW to expend Capital Funds to address the issue of poorly draining brooks, streams, waterways, and culverts throughout the Town that have been severely damaged by heavy rains/storms in the past. Flooding in March 2010 caused the failure of retaining walls, resulting in extensive erosion and silt deposits in brooks and streams. The silt has provided a medium for vegetation and affected the flow of water, and the situation has resulted in the loss of useable abutting property and flooded basements. The current conditions are beyond the means of DPW equipment and personnel. It will require a detailed investigation, a plan of recommended improvements, a design drawing and specifications, environmental permitting, and bidding of construction to be overseen by the Town's Engineering Division. This will return the waterways to a condition that the DPW will be able to maintain.

The Environmental Protection Agency (EPA) is currently finalizing stronger requirements for stormwater and permitting under the NPDES permit. The Town will need to continue to demonstrate its efforts regarding cleaning and improving the water quality of brook and culverts to avoid fines from the EPA.

The Town Engineer and the Water/Sewer/Drains Superintendent have reviewed the existing plan for brook rehabilitation and have determined that based on current conditions, the prioritization should change. The funding that was allocated in FY17 and FY18 will be used to design Meredith Circle area, construct Meadowbrook area, and any remaining funding will be used to address additional portions of Rosemary Brook.

<u>FY19</u> Meredith Circle **Construction \$250,000**

FY20 No Funding Request

<u>FY21</u> Continued wall repair along Rosemary Brook Construction \$200,000

FY22 No Funding Request

FY23 No Funding Request

Future Projects include, but are not limited to, the following locations: Winding River Road Locust Lane Fuller Brook Avenue Oxbow Road Webster and Howland Streets

Capital Project Request

Project Title: Public Works Infrastructure Program

Brookside Road and Forest Street Chestnut Street and Carriage Lane Emerson Place Pennsylvania Avenue Elder Road

Roadway Reconstruction:

This request is for full road reconstruction. This differs from the road rehabilitation program, as it requires more complete design and construction. Rehabilitation is similar to a house renovation whereas reconstruction is similar to a knock-down and rebuild. Roads do not just consist of the top layer of asphalt; they are complete systems that have their own foundation. The Town evaluates the sight distance, drainage, handicap ramps, sidewalks, subsurface utilities, public utility poles, and overhead utilities. For this article, the physical conditions of roads to be considered include shape, foundation, and traffic volume. This relates to the nature of how the Town has evolved historically, with roads being constructed as opposed to being designed. This is a multi-year process which requires surveying, designing, utility evaluation, and construction.

Some of the roads that may be targeted for reconstruction include: Marked Tree Road Nehoiden Street Kingsbury Street (received an interim full width overlay patch in CY16) Sections of Central Avenue Webster Street from Dedham Avenue to South Street (received an interim full width overlay patch in CY16)

Bridge Repairs:

Surrounded on three sides by the Charles River, the Town jointly maintains a number of bridges with neighboring communities. The Massachusetts Bridge Inspection Program has identified a number of bridges that have some level of deficiency and has recommended repairs. This Program is essential to improve the structural and/or surface integrity of all bridges throughout Needham. Capital Project costs will include surveying, engineering evaluation, design, and repair or reconstruction. Bridges are one of the infrastructure assets whose value and depreciation are now tracked under the GASB 34 Program.

Massachusetts Department of Transportation issued a report on Newell's Bridge which is on Central Avenue to Dover, which indicated that the bridge is deficient and in need of repair. The Town will work with Dover to determine how to address these deficiencies.

<u>Other Bridges</u> (all were recently reconstructed) Fisher's Bridge, South Street to Dover Pierce's Bridge, Charles River Street to Dover and South Natick Kendrick Bridge to Newton

No funding requested at this time.

Guardrail:

Many of the Town's guardrails are noncompliant and the DPW is preparing a plan internally to systematically upgrade existing guardrails to make them both compliant and aesthetically pleasing.

Future projects: 447 Dedham Avenue to Town line Central Avenue

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Fiscal Year: 2019

Capital Project Request

Project Title: Public Works Infrastructure Program

Others as determined by DPW, including: Hillside Avenue at Rosemary Street, various locations along Rosemary Street, various locations along Dedham Avenue, High Rock Street at Warren Street, South Street at Dedham Avenue, South Street near Farley Pond Road, Brookline Street at Mitchell School, Greendale Avenue at railroad bridge, Perry Drive, Coulton Park, Harris Avenue, Charles River Street, Central Avenue at Dover town line, multiple locations along Great Plain Avenue, Pilgrim Road, Cartwright Road, Ivy Road, Marshall Street, West Street, Abbott Street, Carter Street, Pershing Road, Chapel Street lot, Oak Knoll Terrace, Blake Street, Highland Avenue near Fire Station #2, Fisher Street near railroad tracks, Parkland Road, and Brookside Road.

3. Conservation Commission permitting may be required for drainage repairs, brooks and culvert repair and roadway reconstruction.

14. The School Safety Committee documented safety issues on Nehoiden Street and Marked Tree Road.

19. A potential increase in electrical costs from traffic signals may require additional budget funds from the Needham Electric Light and Gas Program.

		Street I	Resurfacing	Traffic S	ignal &	Sidewa	lk Program	Storm Drain	n Capacity	Storm Dra	in System					
		(2.	5%/yr)	Interse	ection	(2.	5%/yr)	Improve	ments	Rep	pair	Brooks &	& Culverts		Total	
		Engin.	Const.	Engin.	Const.	Engin.	Const.	Engin.	Const.	Engin.	Const.	Engin.		Engin.	Const.	Total
	2019		\$820,000				\$500,000	\$103,500		\$100,000			\$250,000	\$203,500	\$1,570,000	\$1,773,500
	2020		\$840,500				\$512,500		\$362,500		\$270,000			\$0	\$1,985,500	\$1,985,500
	2021		\$862,000		\$575,000		\$525,000	\$83,000			\$75,000		\$200,000	\$83,000	\$2,237,000	\$2,320,000
	2022		\$884,000				\$540,000		\$523,000		\$75,000			\$0	\$2,022,000	\$2,022,000
	2023		\$906,000	\$166,000			\$555,000	\$103,500			\$75,000			\$269,500	\$1,536,000	\$1,805,500
LΠ																

Fiscal Year: 2019

				Capital Proj	ect Request					
Project Title:	Radio Repeate	er Building Replaceme	nt (Hillcrest Rd.)					Fiscal Year:		2019
urpose:	Construction	C	lassification: Bu	uilding		Status:	New Request			
epartment:	Public Works - H	ighway				Supports:	Public Safety			
artners:	Police Departme	ent, Fire Department, Sch	ools Department, DI	PW, ITC, HHS, PPE	BC	Useful Life:	More than twe	nty-five (25) years		
				Parameters					Re	esponse
. Are there any co	osts to bid, design,	, construct, purchase, ins	tall, implement, or o	otherwise complet	te the project which	n are NOT include	ed is this request?		No	
. Are there recom	nmendations or co	osts identified by other de	epartments which ar	e NOT factored ir	nto the request?				No	
. Does this projec	ct require any perr	nitting by any Town or Si	ate agency?						Yes	
. If this request is	for Technology, h	as the Department com	nunicated with ITC,	and does ITC supp	port the request?				Yes	
If this request is	for Building Impro	ovements, has the Depar	tment communicate	ed with the Buildir	ng Maintenance (BN	A) division, and a	loes BM support th	e request?	No	
If funded, will a	dditional permane	ent staff be required?					Total New FTE	s: 0	No	
. If funded, will th	ne operating budg	et need to be increased t	o cover operating ex	kpenses?					No	
. If funded, will th	nis project lower tl	he requesting Departmer	nt's operating costs?						No	
. If funded, will th	nis project require	ongoing assistance from	vendors at an additi	ional expense to t	he Town which is N	IOT already budg	eted?		No	
0. If the project is	s NOT funded, will	current Town revenue b	e reduced?						No	
1. Is specialized t	raining or annual l	licensing required that th	e Town will need to	pay in order to us	se the asset?				No	
2. Is this a projec	t for which an Init	ial Eligibility Project Appl	ication can be filed v	vith the Communi	ity Preservation Co	nmittee (CPC)?			No	
3. Is this a reques	st in response to a	Court, Federal, or State	order?						No	
4. Is this a reques	st in response to a	documented public heal	th or safety conditio	n?					Yes	
5. Is this a reques	st to improve or m	ake repairs to extend the	e useful life of a build	ding?					No	
6. Is this a reques	st to purchase app	aratus/equipment that is	s intended to be perr	manently installed	at the location of	ts use?			No	
7. Is this a reques	st to repair or othe	erwise improve public pro	operty which is NOT	a building or infra	astructure?				Yes	
8. Will any other	department be re	quired to provide assista	nce in order to comp	plete the project?					Yes	
9. If funded, will	this project increa	se the operating expense	e for any other depar	rtment?					No	
roject Cost:	\$136,000	How was the Project	Cost Determined:		Hired Consultant					
udget Impact:	Negligible impac	t on the annual operatin	g expenses less than	\$5,000						
Project Bud	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibilit	ty	\$0								
esign/Engineerin	g	\$18,000	\$18,000							
and/ROW Acquis	ition	\$0								
te Preparation		\$0								
onstruction		\$118,000	\$118,000							
onstruction Man	agement	\$0								
quipment		\$0								
	, and Equipment	\$0								
echnology Hardw		\$0								
	-	\$0								
Other Expenses		, JO								

Capital Project Request		
oject Title: Radio Repeater Building Replacement (Hillcrest Rd.) Project Description and Considerations	Fiscal Year:	2019
This request is to replace the failing building at the base of the Birds Hill Water Tower on Hillcrest Road. The building houses rad components for the radios and antennas used by the following departments: Fire, Police, DPW, School Transportation, and Loc The new building will include equipment moved from the existing building, new replacement equipment, and a new back-up ge control purposes.	al Emergency Planning Commit	tee (LEPC).
The current building, which was built with cement blocks, is deteriorating and has several water leaks in both the walls and the building and its contents from animals (rodents). Additionally, the steel entrance door has heavy rust and rot. The Town has no structure was built, but it appears it was most likely built in the late 1960s or early 1970s, and has therefore outlasted its useful	ot been able to find records of w	
The Town will also research the possibility of grant funding and other available funding programs.		
The current building size is 8'X10' and the proposed replacement building would be 8'X12', placing the back-up power generate he possibility for future expansion space.	or in a separate room, as well as	s allowing for
f this building is not replaced or significantly rebuilt, continuing damage to the communications equipment could cause major ability to communicate during emergencies. There is also a concern of electrical problems as a result of water and rodent dama		
3. Building permits will be required.		
 There is technology in the communications building. The curent building damage compromises the ability to communicate during emergencies. 		
17. This project improves the reliability of the Town's emergency communication network.		
18. This project involves the Fire Department, Police Department, Schools Department, DPW, Health and Human Services, ITC,	and PPBC.	

				Capital Pro	ject Request					
Project Title:	Streetlight Con	version to LED						Fiscal Year:		2019
Purpose:	Construction	(Classification: In	frastructure		Status:	New Request			
Department:	Public Works - Er	ngineering				Supports:	Transportation N	Network		
Partners:	Finance					Useful Life:	More than eight	(8) years		
				Parameters					Re	esponse
1. Are there any co	osts to bid, design,	construct, purchase, in	stall, implement, or o	therwise comple	ete the project whic	h are NOT includ	ed is this request?		No	
2. Are there recon	nmendations or co	sts identified by other o	departments which are	e NOT factored i	nto the request?				No	
3. Does this projec	ct require any pern	nitting by any Town or S	State agency?						No	
4. If this request is	for Technology, h	as the Department com	municated with ITC, a	and does ITC sup	port the request?				No	
5. If this request is	for Building Impro	ovements, has the Depa	rtment communicate	d with the Buildi	ng Maintenance (Bl	M) division, and	does BM support the	request?	No	
5. If funded, will a	dditional permane	nt staff be required?					Total New FTE's	: 0	No	
7. If funded, will th	he operating budge	et need to be increased	to cover operating ex	penses?					No	
8. If funded, will th	his project lower th	ne requesting Departme	ent's operating costs?						Yes	
9. If funded, will th	his project require	ongoing assistance fror	n vendors at an additi	onal expense to	the Town which is I	NOT already bud	geted?		No	
10. If the project is	s NOT funded, will	current Town revenue	be reduced?						No	
11. Is specialized t	raining or annual l	icensing required that t	he Town will need to	pay in order to u	se the asset?				No	
12. Is this a projec	t for which an Initi	al Eligibility Project App	lication can be filed w	ith the Commur	nity Preservation Co	mmittee (CPC)?			No	
13. Is this a reques	st in response to a	Court, Federal, or State	order?						No	
14. Is this a reques	st in response to a	documented public hea	alth or safety condition	n?					No	
		ake repairs to extend th		-					No	
		aratus/equipment that		· · · ·		its use?			Yes	
		rwise improve public p							No	
		quired to provide assist			?				Yes	
		se the operating expens		tment?	-				No	
Project Cost:	\$685,000	How was the Project			Hired Consultant					
Budget Impact:		Id reduce the operating								
-	get Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
Planning/Feasibilit		\$0								
Design/Engineerin	-	\$0								
Land/ROW Acquis	ition	\$0								
Site Preparation		\$0								
Construction		\$685,000	\$685,000							
Construction Man	agement	\$0								
Equipment		\$0								
Furniture, Fixtures		\$0								
Technology Hardv	vare/Software	\$0								
Other Expenses		\$0					<u>.</u>			
TOTAL		\$685,000	\$685,000	\$0	\$0		\$0 .	\$0	\$0	\$

Capital Project Request

Project Title: Streetlight Conversion to LED

Fiscal Year:

2019

Project Description and Considerations

This request is in response to the Streetlight Pilot Program conducted by DPW from May 2017 to July 2017. The Pilot Program tested the existing streetlights against Light Emiting Diodes (LED) streetlights to get the Town residents' input on converting to a more efficient lighting type. The existing lights are High Pressure Sodium (HPS) lights. These were considered the most energy efficient lighting types for their purpose in the early 2000s. Currently, LEDs are considered the more energy efficient streetlighting type. Taking into consideration the Town's Pilot Program, it was determined that converting the streetlights to LED was in the Town's best interest. Of the three LED streetlight models piloted, two received a higher average rating than the existing HPS streetlights by the Town residents who completed the online survey. This included many residents who live on the streets where the Pilot Program was conducted.

The Metropolitan Area Planning Council (MAPC) conducted an estimate for the Town of Needham in 2017 to convert all of the existing Cobrahead streetlights. According to that estimate, the Town has 2,521 existing streetlights that would need to be converted. In addition to the monetary incentive, the Town's energy savings would be approximately 393,296 kWh annually. Depending on funding and implementation schedule, the actual cost to the Town may decrease. Payback does not include anticipated decreases in maintenance costs. LED lights will be warrantied for ten years and the only costs for maintenance to the Town will be labor to address any issues, pole transfers, new lights, and the cost of knockdowns.

	Savings/Yr	Costs	Payback
Utility Incentive Only	\$94,578	\$658,255	7.0
Utility Incentive & Grant	\$94,578	\$494,812	5.2

Other Massachusetts towns and cities with comparable streetlight inventories that have participated in the MAPC LED conversion program have secured maintenance contracts valued at an average of \$0.53 per streetlight per year, while Needham currently pays \$14.24 per streetlight per year for its existing streetlight maintenance contract. Though not all Town-owned streetlights are eligible for LED conversion under the MAPC program, total maintenance savings for those that are eligible for conversion could exceed \$30,000 per year.

The MAPC listed out a seven milestone process in order to complete the streetlight conversion project. So far, the Town has completed the first two milestones, which were to contact the electric utility to begin the incentive reservation and to complete a streetlight audit. The next step is to secure funding.

8. It will not decrease DPW's annual operating budget, but it will decrease the Needham Electric, Light, and Gas budget due to energy reduction and reduced maintenance costs. 16. These lights will be permanently installed on the street.

18. Finance will be involved in the process since the budget for the utility costs and maintenance are managed by that Department.

				Capital Proje	ect Request					
Project Title:	Town Common	Historic Redesign a	nd Beautification					Fiscal Year:		2020
Purpose:	Construction	C	Classification: In	frastructure	St	atus:	Amended Requ	est from the Prio	r CIP	
epartment:	Public Works - Pa	rks and Forestry			Su	pports:	Culture and Leis	ure		
artners:	Fown Manager, I⊺	ГC			Us	eful Life:	More than eigh	een (18) years		
				Parameters					F	Response
. Are there any cos	ts to bid, design,	construct, purchase, in	stall, implement, or o	otherwise complet	e the project which ar	e NOT included	is this request?		No	
. Are there recomn	nendations or cos	ts identified by other d	lepartments which ar	e NOT factored in	to the request?				No	
. Does this project	require any perm	itting by any Town or S	State agency?						Yes	
. If this request is fo	or Technology, ha	is the Department com	municated with ITC,	and does ITC supp	ort the request?				Yes	
. If this request is fo	or Building Impro	vements, has the Depa	rtment communicate	ed with the Buildin	g Maintenance (BM)	division, and do	es BM support th	e request?	No	
. If funded, will add	litional permaner	nt staff be required?					Total New FTE's	: 0	No	
. If funded, will the	operating budge	t need to be increased	to cover operating ex	kpenses?					No	
. If funded, will this	project lower th	e requesting Departme	ent's operating costs?						No	
. If funded, will this	project require o	ongoing assistance fron	n vendors at an additi	ional expense to t	he Town which is NOT	already budge	ted?		No	
		current Town revenue							No	
 Is specialized tra 	ining or annual lie	censing required that t	he Town will need to	pay in order to us	e the asset?				No	
Is this a project f	or which an Initia	I Eligibility Project App	lication can be filed w	vith the Communi	ty Preservation Comm	ittee (CPC)?			Yes	
3. Is this a request	in response to a O	Court, Federal, or State	order?						No	
		locumented public hea							No	
		ke repairs to extend th		-					No	
		ratus/equipment that i				use?			No	
		wise improve public pr			structure?				No	
	· · · · · · · · · · · · · · · · · · ·	uired to provide assista							Yes	
		e the operating expens	e for any other depar						No	
,	\$958,000	How was the Project			In-House Estimate					
U		on the annual operatir	ng expenses less than	\$5,000						
Project Budg	et Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibility		\$0								
esign/Engineering		\$52,000		\$52 <i>,</i> 000						
and/ROW Acquisiti	on	\$0								
ite Preparation		\$0								
onstruction		\$906,000			\$906,000					
onstruction Manag	ement	\$0								
quipment		\$0								
urniture, Fixtures, a	and Equipment	\$0								
echnology Hardwa	re/Software	\$0								
Other Expenses		\$0								
TOTAL		\$958,000	\$0	\$52,000	\$906,000	\$		\$0	\$0	

Capital Project Request		
Project Title: Town Common Historic Redesign and Beautification	Fiscal Year:	2020
Project Description and Considerations		
The Town is presently completing an internal design process for the Town Common. This will include improved hardscape, land that are consistent with the historic nature of the common as well as the improvements being made in the Downtown Streetsca		rovements
This project includes improving the landscaping with new sod, trees, and plantings. The hardscape services will be upgraded to handicap accessible. The pathways and landscaping will be adjusted to become more aesthetically pleasing and functionally enaccommodate Town-wide events. This work will complement the new Town Hall and enhance the new "blue tree".		
DPW and the Parks and Forestry Division did a thorough review of their workload over the next five years in order to prioritize to bue to this review, it has been decided this project is going to be pushed back a year.	heir schedule based on the volume of projects and	d their timing.
 This project may be subject to Planning Board review. ITC will need to be involved for Wifi and electrical connectivity. This project is being evaluated for eligibility of Community Preservation Funds under the category of Historic Preservation. The Town Manager's Office will be involved. 		

			Capital Project	Request				
	Improvements					Fi	scal Year:	2019
Purpose: Constru	iction	Classification: Inf	rastructure	Sta	itus: A	mended Request fro	om the Prior CIP	
Department: Public	Vorks - Engineering			Suj	pports: T	ransportation Netwo	ork	
Partners:				Use	eful Life: N	Iore than eighteen (18) years	_
			Parameters					Response
 Are there any costs to bi 	d, design, construct, purchase, ir	nstall, implement, or ot	herwise complete t	he project which are	e NOT included is t	his request?		No
2. Are there recommendat	ons or costs identified by other	departments which are	NOT factored into	the request?				No
Does this project require	any permitting by any Town or	State agency?						Yes
4. If this request is for Tech	nology, has the Department con	nmunicated with ITC, a	nd does ITC support	t the request?				No
5. If this request is for Build	ing Improvements, has the Depa	artment communicated	l with the Building N	Maintenance (BM) o	division, and does I	BM support the requ	est?	No
5. If funded, will additional	permanent staff be required?				т	otal New FTE's: 0		No
 If funded, will the operation 	ing budget need to be increased	I to cover operating exp	enses?			·		Yes
	t lower the requesting Departme	, ,						No
9. If funded, will this projec	t require ongoing assistance from	m vendors at an additio	onal expense to the	Town which is NOT	already budgeted	?		No
1 1	nded, will current Town revenue							No
1. Is specialized training o	r annual licensing required that t	the Town will need to p	ay in order to use t	he asset?				No
	ch an Initial Eligibility Project App		th the Community	Preservation Commi	ittee (CPC)?			No
	onse to a Court, Federal, or State							No
	onse to a documented public he							Yes
· · · ·	ove or make repairs to extend t		-					No
· · · · ·	hase apparatus/equipment that				se?			Yes
	ir or otherwise improve public p			ucture?				No
	ent be required to provide assist							No
	ct increase the operating expen							Yes
Project Cost: \$250,0				House Estimate				
	rease annual operating expense	es between \$5,001 and	\$25,000					
Project Budget Elen	, ,	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility	\$0							
Design/Engineering	\$0							
and/ROW Acquisition	\$0							
ite Preparation	\$0							
onstruction	\$250,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		
Construction Management								
quipment	\$0							
urniture, Fixtures, and Equ	•							
echnology Hardware/Soft								
Other Expenses	\$0							
TOTAL	\$250,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	

\$0

Capital Project Request

Project Title: Traffic Improvements

Fiscal Year:

2019

Project Description and Considerations

This Article will allow for the funding of projects that are recommended by the Traffic Management Advisory Committee (TMAC). These recommendations include items such as permanent speed monitoring devices, traffic calming measures, and school zone enhancements. These items are not presently included in the Department of Public Works operating budget. The \$50,000 annual request will support one or two TMAC construction related requests per year such as 500 feet of roadway granite curb installation, two school zone installations, two average traffic calming installations, several radar sign installations, or sign and/or pavement markings.

FY19 (Pending TMAC Approval)

- Granite curb installation on Paul Revere Road and Brookline Road.

Examples of Previous TMAC Requests

- Flashing LED pedestrian signs and school zone signs for Eliot School.

- Handicap ramps and cross-walks at various locations.

- Children playing signs.

Examples of Potential Future TMAC Projects

- Advisory curve signs with speed tabs on Forest Street.

- Traffic signal timing adjustments at Great Plain Avenue and Central Avenue.

3. Depending on recommendations from TMAC there may be permitting requirements with the Conservation Commission, Planning Board, Zoning Board of Appeals, and Building Department.

7. The maintenance budget for the Highway Division will need to be increased so that improvements can be maintained. The cost of maintenance will vary based on the type of improvement made. This can vary from \$100-\$1,000 annually.

14. This request is in response to the recommendations by the TMAC and Safe Routes to School report.

16. Improvements under this article could include signage, signaling, curbing, or other traffic calming measures that will be permanently installed at the determined locations.

19. If electricity is required for any of these improvements, then the Needham Light, Electric, and Gas Program budget may be increased to fund the electricity costs.

			Capital Proj	ect Request					
Project Title: Bu	ilding Management System Up	grade					Fiscal Year:		2019
Purpose: Co	nstruction	Classification:	Technology		Status:	Amended Requ	est from the Prior	CIP	
Department: Pu	blic Works - Building Maintenance				Supports:	Other (see belo	w for information)		
	, School Department				Useful Life:	More than eigh	t (8) years		
			Parameters					F	lesponse
1. Are there any costs	to bid, design, construct, purchase,	install, implement, or	otherwise complet	e the project which	are NOT includ	ed is this request?		No	
2. Are there recomme	ndations or costs identified by othe	r departments which	are NOT factored in	to the request?				No	
3. Does this project ree	quire any permitting by any Town c	r State agency?						No	
4. If this request is for	Technology, has the Department co	ommunicated with ITC	C, and does ITC supp	ort the request?				Yes	
5. If this request is for	Building Improvements, has the De	partment communica	ted with the Buildin	ng Maintenance (BN) division, and	does BM support th	e request?	Yes	
6. If funded, will additi	onal permanent staff be required?					Total New FTE'	s: 0	No	
	perating budget need to be increas					·		No	
8. If funded, will this p	oject lower the requesting Depart	ment's operating costs	s?					No	
	roject require ongoing assistance fr		itional expense to t	he Town which is N	OT already budរ្	geted?		No	
	T funded, will current Town reven							No	
	ng or annual licensing required tha							No	
	which an Initial Eligibility Project A		l with the Communi	ty Preservation Con	mittee (CPC)?			No	
	response to a Court, Federal, or Sta							No	
	response to a documented public h							No	
	improve or make repairs to extend		-					No	
	purchase apparatus/equipment th				s use?			No	
	repair or otherwise improve public							No	
	artment be required to provide ass							Yes	
	project increase the operating expe							No	
		ect Cost Determined:		Industry References					
	gligible impact on the annual operation								
Project Budget	· · ·		2020	2021	2022	2023	2024		2025
Planning/Feasibility	\$								
Design/Engineering	\$								
Land/ROW Acquisition									
Site Preparation	\$		6126 000	604.000					
Construction	\$322,00		\$126,000	\$94,000					
Construction Manager Equipment	nent \$ \$								
Furniture, Fixtures, and									
Technology Hardware,									
Other Expenses	soltware \$								
TOTAL	ې \$322,000	-	¢126 000	¢04.000		\$0	\$0	\$0	\$
IUIAL	\$322,000	\$102,000	\$126,000	\$94,000		ŞΟ	ŞΟ	ŞU	\$

\$0

Capital Project Request		
Project Title: Building Management System Upgrade	Fiscal Year:	2019
Project Description and Considerations		
The Town maintains a Building Management System (BMS) on the school's server to manage the heating and cooling in all major facilities in Town. All with the exception of the Newman, are on the same system called Control Suite, LON works. These systems consist of internal sensors in the HVAC construct that allows Building Maintenance staff to review and diagnose HVAC issues remotely as well as on-site. This system is critical to the maintenan building.	omponents and a backend so	oftware
The IT department for the Town would like to upgrade and standardize all of the BMS so that we are only utilizing and maintaining one system. A par remain on a separate system because of the devices installed at the time of renovation. A retrofit would be necessary to completely migrate it to the for greater standardization and will change the manner of how HVAC data is communicated. Currently, there are computer interfaces talking to device communicating this information to an outside computer for management. This new software would create a virtualized environment where the softw no longer on the devices. This will rid us of unnecessary redundancy and help to improve tracking. This will also allow all of the Town's buildings to im- permitting system, which will reduce the amount of time it takes staff to input irregular schedules and ensure appropriate temperature for afterhours. Department would like the system to be migrated to the Town's network, and the standardization will assist in this process.	new software. This convers ces within the building and t ware would only be on the b ntegrate with the Town's afte	ion will allow hen ack end and erhours
This proposal is a phased approach to replacing the Front End of the BMS system so that all the buildings in Town will be on one system. It is propose SmartStruxure Building Management System.	d that this system will be th	e
This request is being moved forward a year, to start in FY19. The existing Building Maintenance System is a legacy system in the oldest buildings and we the current old system requires manual schedule adjustments for all after school activities and vacations. The new system will integrate with the Tow will not require manual override. The new Williams School, opening potentially in FY20, will also be on the SmartStruxure Building Management System	vn's after hours permitting s	
In FY19, the Town will upgrade the Front End Software and complete the conversion of the Pollard, Broadmeadow, Library, Mitchell, and Eliot. These it is possible in the future, the control panel for these systems will no longer be serviced.	are the oldest BMS systems	in Town and
In FY20, the Town will upgrade the High School and the Newman School. The High School has the most sophisticated HVAC system in Town and there	fore is the most expensive t	to convert.
In FY21, the Town will upgrade the Town Hall, High Rock, PSAB, Hillside, and Center at the Heights. If the Hillside is no longer being occupied at this til	me, it will not be converted.	
Supports Other: Supports building infrastructure.		
4. The request will require assistance from the IT Department.5. This is a Building Maintenance request.18. The School Department will be involved.		

			C	<mark>apital Project Re</mark>	quest				
Project Title:	CATH Space Utiliz	ation Study						Fiscal Year:	2023
urpose:	Feasibility Study		assification: Building	5	Sta	atus:	Informational Only		te
epartment:	Public Works - Build	-			Su	pports:	Community Services		
Partners:	Health and Human S	Services, Council on Ag	ging		Us	eful Life:	More than five (5) y	ears	
				ameters					<u>Response</u>
			all, implement, or otherv			e NOT included	l is this request?		No
. Are there recom	mendations or costs	identified by other de	partments which are NO	T factored into the	request?				No
. Does this projec	t require any permitt	ing by any Town or Sta	ate agency?						No
I. If this request is	for Technology, has t	the Department comm	nunicated with ITC, and d	oes ITC support the	e request?				No
6. If this request is	for Building Improve	ments, has the Depart	ment communicated wit	h the Building Mair	ntenance (BM)	division, and do	pes BM support the rec	juest?	Yes
. If funded, will ac	dditional permanent s	staff be required?					Total New FTE's:)	No
. If funded, will th	e operating budget n	eed to be increased to	o cover operating expense	es?					No
8. If funded, will th	is project lower the r	equesting Departmen	t's operating costs?						No
). If funded, will th	is project require ong	going assistance from	vendors at an additional	expense to the Tow	vn which is NOT	already budge	ted?		No
10. If the project is	NOT funded, will cur	rrent Town revenue be	e reduced?						No
1. Is specialized tr	raining or annual licer	nsing required that the	e Town will need to pay ir	n order to use the a	isset?				No
2. Is this a project	t for which an Initial E	ligibility Project Applic	cation can be filed with th	ne Community Pres	ervation Comm	ittee (CPC)?			No
3. Is this a reques	t in response to a Cou	urt, Federal, or State o	order?						No
4. Is this a reques	t in response to a doo	cumented public healt	h or safety condition?						No
.5. Is this a reques	t to improve or make	e repairs to extend the	useful life of a building?						Yes
.6. Is this a reques	t to purchase apparat	tus/equipment that is	intended to be permane	ntly installed at the	location of its u	ıse?			No
7. Is this a reques	t to repair or otherwi	ise improve public pro	perty which is NOT a buil	ding or infrastructu	ure?				No
8. Will any other	department be requir	red to provide assistan	nce in order to complete	the project?					Yes
.9. If funded, will t	this project increase t	he operating expense	for any other departmen	t?					No
Project Cost:	\$30,000	How was the Project C	Cost Determined:	In-Hou	ise Estimate				-
Budget Impact:	Negligible impact or	n the annual operating	expenses less than \$5,00	00					
Project Bud	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
lanning/Feasibilit	у	\$0							
esign/Engineering	g	\$30,000					\$30,000		
and/ROW Acquisi	tion	\$0							
ite Preparation		\$0							
Construction		\$0							
onstruction Mana	agement	\$0							
quipment		\$0							
urniture, Fixtures,	, and Equipment	\$0							
echnology Hardw	are/Software	\$0							
Other Expenses		\$0							
Strict Experises									

Project Title:	CATH Space Utilization Study
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Project Description and Considerations

Capital Project Request

Fiscal Year:

2023

Funding is requested to support a space utilization study and an assessment of building needs at the Center at the Heights (CATH) in light of the Town's commitment to expand hours of operation of the building. A high priority of the Council on Aging, the focus of this independent, expert-led study would be on the program, office, and clinical spaces within the CATH and ensuring optimal utilization and program flexibility for participants. Additional points of emphasis for this study would include deck configuration and level of usage, enhancing and expanding the utilization of the restaurant-grade kitchen, and a review of parking and building access challenges for Needham's seniors.

5. This is a request submitted by the Building Maintenance Division.

15. This request is to improve the usage of the existing space and possibly improve it, depending on the results of the feasibility study.

18. Assistance will be required from the Council on Aging and the Department of Health and Human Services.

				Capital Proje	ect Request					
Project Title: [OPW Boiler Rep	placement - 470 Dedha	im Ave					Fiscal Year:		019
	Construction		ssification: Bu	ilding	:	Status:	Amended Requ	est from the Prior	CIP	
epartment: F	Public Works - Bu	ilding Maintenance				Supports:		w for information)		
artners:					1	Useful Life:	More than eigh	teen (18) years		
				Parameters Parameters					Res	<u>sponse</u>
		construct, purchase, insta				are NOT include	d is this request?		No	
. Are there recomm	endations or cos	ts identified by other dep	partments which are	e NOT factored int	to the request?				No	
. Does this project r	equire any perm	itting by any Town or Sta	te agency?						Yes	
. If this request is fo	or Technology, ha	is the Department comm	unicated with ITC, a	ind does ITC supp	ort the request?				No	
. If this request is fo	or Building Impro	vements, has the Departr	ment communicated	d with the Buildin	g Maintenance (BM) division, and d	oes BM support th	e request?	Yes	
. If funded, will add	itional permaner	nt staff be required?					Total New FTE	s: 0	No	
. If funded, will the	operating budge	t need to be increased to	cover operating ex	penses?					No	
. If funded, will this	project lower th	e requesting Department	's operating costs?						Yes	
. If funded, will this	project require of	ongoing assistance from v	endors at an addition	onal expense to the	ne Town which is N	DT already budge	eted?		No	
0. If the project is N	I OT funded, will o	current Town revenue be	reduced?						No	
		censing required that the							No	
Is this a project feature	or which an Initia	I Eligibility Project Applic	ation can be filed w	ith the Communit	y Preservation Com	mittee (CPC)?			No	
3. Is this a request i	n response to a O	Court, Federal, or State o	der?						No	
4. Is this a request i	n response to a c	locumented public health	n or safety condition	ו?					No	
5. Is this a request t	o improve or ma	ke repairs to extend the	useful life of a build	ing?					Yes	
6. Is this a request t	o purchase appa	ratus/equipment that is i	ntended to be perm	nanently installed	at the location of it	s use?			Yes	
7. Is this a request t	o repair or other	wise improve public prop	perty which is NOT a	a building or infra	structure?				No	
		uired to provide assistan							No	
9. If funded, will thi	s project increas	e the operating expense f	or any other depart						No	
	434,000	How was the Project C			ndustry References					
udget Impact:	Negligible impact	on the annual operating	expenses less than	\$5,000						
Project Budge	et Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	025
lanning/Feasibility		\$0								
esign/Engineering		\$34,000	\$34,000							
and/ROW Acquisition	on	\$0								
ite Preparation		\$0								
onstruction		\$400,000		\$400,000						
onstruction Manag	ement	\$0								
quipment		\$0								
urniture, Fixtures, a		\$0								
echnology Hardwar	e/Software	\$0								
ther Expenses		\$0								
OTAL		\$434,000	\$34,000	\$400,000	\$0		50	\$0	\$0	

Capital Project Request		
roject Title: DPW Boiler Replacement - 470 Dedham Ave	Fiscal Year:	2019
Project Description and Considerations		
This request is to replace the DPW boiler with two high efficiency condensing boilers. The increase to two boilers is based on both the need for redu	undancy in the heating seas	on and the
desire to improve energy efficiency. The boiler at the DPW was installed in 1961 and is past its useful life. This piece of equipment has required a nu	imber of repairs in order to	maintain it in
working order. Significant repairs were necessary in FY10 and FY12 at costs of \$60,000 and \$25,000 respectively. In FY15, \$4,180 was spent on repai	irs. A new boiler will improv	ve the energy
efficiency of heating the DPW. Installing two units will ensure that if one unit needs repair during the heating season, the builling will have sufficien	t heat to prevent the pipes	from freezing.
After review, the Building Maintenance Division has pushed the construction phase of this project back to FY20 in order to allow proper time for a t	horough design. Additional	ly, the division is
adding upgrading the heat piping throughout the building to the construction phase. This is in response to a review and analysis of the existing pipir	ng in the building with the a	assumption that
the building will need to remain in use for the foreseeable future.		
The new boiler will be designed for natural gas and will increase the energy efficiency of the heating systems at the DPW. This project may be eligib	le for energy efficiency reb	ates to offset
the cost of buying a more efficient model.		
There is an estimated 15-20% energy cost savings based on savings seen at the Pollard and Newman schools, which underwent similar boiler upgrad	des.	
Supports Other: Supports building infrastructure.		
3. Plumbing and electrical permits will be required.		
5. This request is for the Building Maintenance Division.		
8. Upgrading to an energy efficient boiler will reduce heating costs, but those are no longer included in Building Maintenance's budget.		
15. This request will extend the life of the building.		
16. The boiler will be permanently installed at this location.		

				Capital Proje	ct Request					
Project Title:	Emery Grover F	Partial Window Repla						Fiscal Year:		2020
Purpose:	Construction		Classification: Bu	uilding	S	tatus:	Informational Or	nly Details Incom	plete	
epartment:		ilding Maintenance				upports:	Other (see below			
Partners:	Needham Public	Schools, Community Pro	eservation Committe	e	L	seful Life:	More than twent	y-five (25) years		
				Parameters					<u>R</u>	<u>esponse</u>
Are there any co	osts to bid, design,	construct, purchase, in:	stall, implement, or o	otherwise complete	e the project which a	re NOT included	d is this request?		No	
. Are there recom	nmendations or cos	sts identified by other d	epartments which ar	re NOT factored in	to the request?				No	
. Does this projec	ct require any perm	itting by any Town or S	tate agency?						Yes	
. If this request is	s for Technology, ha	as the Department com	municated with ITC,	and does ITC supp	ort the request?				No	
. If this request is	s for Building Impro	vements, has the Depa	rtment communicate	ed with the Buildin	g Maintenance (BM)	division, and do	pes BM support the	request?	Yes	
. If funded, will a	dditional permaner	nt staff be required?					Total New FTE's:	0	No	
. If funded, will th	he operating budge	t need to be increased	to cover operating ex	xpenses?					No	
8. If funded, will th	his project lower th	e requesting Departme	nt's operating costs?						Yes	
). If funded, will th	his project require o	ongoing assistance from	n vendors at an addit	ional expense to th	ne Town which is NO	T already budge	eted?		No	
0. If the project is	s NOT funded, will	current Town revenue l	pe reduced?						No	
1. Is specialized t	raining or annual li	censing required that th	ne Town will need to	pay in order to use	e the asset?				No	
2. Is this a projec	t for which an Initia	al Eligibility Project App	lication can be filed v	with the Communit	y Preservation Com	nittee (CPC)?			Yes	
3. Is this a reques	st in response to a (Court, Federal, or State	order?						No	
4. Is this a reques	st in response to a o	documented public hea	Ith or safety conditio	on?					No	
.5. Is this a reques	st to improve or ma	ake repairs to extend th	e useful life of a buil	ding?					Yes	
.6. Is this a reques	st to purchase appa	ratus/equipment that i	s intended to be peri	manently installed	at the location of its	use?			Yes	
7. Is this a reques	st to repair or othe	rwise improve public pr	operty which is NOT	a building or infra	structure?				No	
8. Will any other	department be req	uired to provide assista	ance in order to com	plete the project?					Yes	
9. If funded, will	this project increas	e the operating expens	e for any other depa	rtment?					No	
Project Cost:	\$360,000	How was the Project			ndustry References					
udget Impact:	Negligible impact	on the annual operatir	ig expenses less than	\$5,000						
Project Bud	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibilit	ty	\$0								
esign/Engineerin	ıg	\$30,000		\$30,000						
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
Construction		\$330,000			\$330,000					
onstruction Man	agement	\$0								
quipment		\$0								
	s, and Equipment	\$0								
echnology Hardw	vare/Software	\$0								
Other Expenses		\$0								
Julei Lypenses		,								

	Capital Project Request	
roject Title:	Emery Grover Partial Window Replacement	Fiscal Year: 2020
	Project Description and Considerations	
They are ineffi	to replace the eight arched windows on the front of the Emery Grover building. A prominent feature of the buil- cient, resulting in occupant discomfort and needless energy usage for heating and cooling. Replacing these wind span of the replacement windows is 50 years.	
•	as been pushed back to FY20 in order to allow additional time for the Town to determine the future of the buildi recommended.	ng. If a major renovation is not planned for this facility, then this
Supports Othe	r: Supports building infrastructure.	
3. Building per	mits will be required.	
5. This request	is for the Building Maintenance Division.	
8. Energy effici	ency upgrades will reduce energy costs, which are no longer handled by the Building Maintenance Division.	
	t may be eligible for CPA funding.	
	it is necessary to extend the life of the building.	
	ws will be permanently installed.	
18. This reques	st will require assistance from the School Department.	

				Capital Proj	ect Request					
Project Title:	Emery Grover F	Roof Replacement						Fiscal Year:	2	022
	Construction		lassification: Bu	uilding		Status:	Informational O	nly Details Incomp	olete	
		ilding Maintenance				Supports:	Other (see below	v for information)		
Partners:	School Departme	nt, Community Preserva	ation Committee			Useful Life:	More than twent	ty-five (25) years		
				Parameters						ponse
		construct, purchase, ins				are NOT include	d is this request?		No	
2. Are there recomn	nendations or cos	sts identified by other de	epartments which ar	e NOT factored ir	nto the request?				No	
3. Does this project	require any perm	itting by any Town or St	tate agency?						Yes	
4. If this request is fo	or Technology, ha	is the Department comr	municated with ITC, a	and does ITC supp	port the request?				No	
5. If this request is fo	or Building Impro	vements, has the Depar	tment communicate	d with the Buildir	ng Maintenance (BM) division, and d	oes BM support the	request?	Yes	
5. If funded, will add	litional permaner	nt staff be required?					Total New FTE's:	0	No	
7. If funded, will the	operating budge	t need to be increased t	o cover operating ex	(penses?					No	
8. If funded, will this	s project lower th	e requesting Departmer	nt's operating costs?						Yes	
9. If funded, will this	s project require o	ongoing assistance from	vendors at an additi	ional expense to t	he Town which is N	DT already budge	eted?		No	
10. If the project is I	NOT funded, will	current Town revenue b	e reduced?						No	
11. Is specialized tra	ining or annual li	censing required that th	e Town will need to	pay in order to us	se the asset?				No	
L2. Is this a project f	or which an Initia	al Eligibility Project Appl	ication can be filed w	vith the Commun	ity Preservation Com	mittee (CPC)?			Yes	
13. Is this a request	in response to a (Court, Federal, or State	order?						No	
L4. Is this a request	in response to a o	documented public heal	th or safety conditio	n?					No	
15. Is this a request	to improve or ma	ke repairs to extend the	e useful life of a build	ding?					Yes	
16. Is this a request	to purchase appa	ratus/equipment that is	s intended to be perr	manently installed	d at the location of it	s use?			Yes	
17. Is this a request	to repair or othe	wise improve public pro	operty which is NOT	a building or infra	astructure?				No	
18. Will any other de	epartment be rec	uired to provide assista	nce in order to comp	plete the project?					Yes	
19. If funded, will th	is project increas	e the operating expense	e for any other depar	rtment?					No	
Project Cost:	\$175,000	How was the Project	Cost Determined:		Industry References					
Budget Impact:	Negligible impact	on the annual operating	g expenses less than	\$5,000						
Project Budg	et Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	025
Planning/Feasibility		\$0								
Design/Engineering		\$15,000			\$15,000					
and/ROW Acquisiti	on	\$0								
Site Preparation		\$0								
Construction		\$160,000				\$160,00	00			
Construction Manag	gement	\$0								
quipment		\$0								
urniture, Fixtures, a	and Equipment	\$0								
Technology Hardwa	re/Software	\$0								
Other Expenses		\$0								
		\$175,000	\$0	\$0	\$15,000	\$160,00		60	\$0	

Capital Project Request		
Project Title: Emery Grover Roof Replacement	Fiscal Year:	2022
Project Description and Considerations		
This request is to replace the existing roof at the Emery Grover Building. The existing slate roof at the Emery Grover is over 100 years old. It poses a con beyond the expected 75 year life span of this roof type. In the Spring of 2010, leaks in the roof caused damage to flooring materials. These circmstances its summer asbestos abatement work and caused interruption to the operations of the building .		
A new environmentally conscious material that mimics the aesthetics of slate, but is composed of recycled rubber from tires, will be used to replace thi cost of installation by over one third and would reduce the cost of maintenance. The anticipated lifespan of this material is 50 years. If slate material is would be \$237,537.		
Replacing this roof will increase the energy efficiency of this building. It will decrease leaks, the cost of repairs, and the inconvenience to the occupants.		
The Building Maintenance Division is adding a design phase in FY21 in order to ensure that the new roof will meet all the requirements of the building.		
This project is pending the results of the Emery Grover feasibility study.		
Supports Other: Supports building infrastructure.		
 Building permits will be required. This request is for the Building Maintenance Division. Energy efficiency upgrades will reduce energy costs, which are no longer handled by the Building Maintenance Division. This project may be eligible for CPA funding. This request is necessary to extend the life of the building. The roof will be permanently installed. This request will require assistance from the School Department. 		

				Capital Projec	t Request				
Project Title:	Energy Efficient	: Upgrades					Fi	iscal Year:	2019
urpose:	Construction		ssification: Bui	ilding	Sta		Amended Request fr		Р
epartment:	Public Works - Bu	ilding Maintenance			Su	pports:	Other (see below for	information)	
Partners:	Building Occupan	ts			Us	eful Life:	More than twelve (12	!) years	
				Parameters					Respons
 Are there any co 	osts to bid, design,	construct, purchase, insta	all, implement, or ot	herwise complete	the project which ar	e NOT included is	this request?		No
2. Are there recom	mendations or cos	sts identified by other dep	artments which are	NOT factored into	the request?				No
 Does this projec 	t require any perm	itting by any Town or Sta	te agency?						Yes
4. If this request is	for Technology, ha	as the Department comm	unicated with ITC, a	nd does ITC suppor	rt the request?				No
5. If this request is	for Building Impro	vements, has the Departr	nent communicated	d with the Building	Maintenance (BM)	division, and does	BM support the requ	iest?	Yes
6. If funded, will ac	ditional permaner	nt staff be required?				•	Total New FTE's: 0		No
7. If funded, will th	e operating budge	t need to be increased to	cover operating exp	penses?		•			No
8. If funded, will th	is project lower th	e requesting Department	's operating costs?						Yes
		ongoing assistance from v		onal expense to the	Town which is NOT	already budgeted	1?		No
		current Town revenue be		•					No
11. Is specialized tr	aining or annual li	censing required that the	Town will need to p	bay in order to use	the asset?				No
2. Is this a project	for which an Initia	al Eligibility Project Applic	ation can be filed w	ith the Community	Preservation Comm	ittee (CPC)?			No
13. Is this a reques	t in response to a (Court, Federal, or State or	der?						No
4. Is this a reques	t in response to a d	documented public health	or safety condition	1?					No
15. Is this a reques	t to improve or ma	ke repairs to extend the	useful life of a buildi	ing?					Yes
16. Is this a reques	t to purchase appa	ratus/equipment that is i	ntended to be perm	anently installed a	t the location of its ι	use?			Yes
17. Is this a reques	t to repair or other	wise improve public prop	erty which is NOT a	building or infrast	ructure?				No
L8. Will any other	department be req	uired to provide assistan	ce in order to comp	lete the project?					Yes
19. If funded, will t	his project increas	e the operating expense f	or any other depart	ment?					No
Project Cost:	\$471,000	How was the Project C	ost Determined:	Hi	red Consultant				
Budget Impact:	Negligible impact	on the annual operating	expenses less than \$	\$5,000					
Project Bud	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibilit	ý	\$0							
Design/Engineering	g	\$100,000			\$100,000				
and/ROW Acquisi	tion	\$0							
Site Preparation		\$0							
Construction		\$371,000	\$64,000	\$7,000	\$100,000	\$100,000	\$100,000		
Construction Mana	agement	\$0							
quipment		\$0							
urniture, Fixtures,	, and Equipment	\$0							
Technology Hardw	are/Software	\$0							
Other Expenses		\$0							
· · · · · · · · · · · · · · · · · · ·		\$471,000	\$64,000	\$7,000	\$200,000	\$100,000	\$100,000	A	0

Project Title: Energy Efficient Upgrades

Project Description and Considerations

Capital Project Request

The 2011 May Special Town Meeting approved Article 6 to fund an engineering study for energy upgrades. This study was conducted on 10 key buildings in August and September of 2011 and the results were issued in October 2011. The results of this study illustrate that if the Town makes an initial investment in selected and recommended energy upgrades, the cost of these upgrades will pay for themselves within 10 years.

Recent Projects Include:

In FY16, the division completed numerous energy efficiency lighting upgrades, including: exterior lighting and gym lighting at the Broadmeadow School, exterior lighting at the High Rock School, exterior lighting at Needham High School, gym lighting at the Eliot School, exterior lighting at the Needham Public Library, gym lighting at the Pollard School, and exterior lighting at the Public Services Administration Building (PSAB).

The division was also able to do the following additional energy efficiency upgrades: lighting in the cafe and auditorium at the Eliot School, gym lighting in the B gym at Needham High School, gym lighting at the Hillside School, and auditorium lighting at the Pollard School.

In FY17, the divison completed numerous energy efficiency lighting upgrades, including: lighting in the gym at the Mitchell School, and exterior lighting and lighting in the garage at the DPW Building. The initial plan had been to perform retrocommissioning on the HVAC controls at the Eliot School, but due to conflicts over the summer, the work has been postponed to FY19. The funds were used to complete the work above.

In FY18, the division will upgrade the air conditioning and the lighting in the cafe at the Mitchell School.

In FY19, the division intends to install a bi-lighting system in the hallways at the Pollard Middle School (\$7,000) and retrocommission the HVAC system at the Eliot (\$57,000).

In FY20, the division intends to install a bi-lighting system in the hallways at the High Rock School (\$7,000).

In FY21, the division intends to retrocommission the HVAC system at the High School (\$100,000). Additionally, the division intends to do another energy efficiency study (\$100,000). The original study was only focused on 10 buildings that had some age. This study will focus on buildings that were not addressed in the original study, including Town Hall, PSAB, Newman School, and Center at the Heights, in addition to the original buildings that will not be undergoing renovation shortly. The improvement in technologies necessitates that this study be conducted approximately every 10 years.

Supports Other: Supports building infrastructure.

3. Building, electrical, and plumbing permits will be required.

- 5. This request is for the Building Maintenance Division.
- 8. Energy efficieny upgrades will reduce energy costs, but these are no longer included in Building Maintenance's budget.

15. This request will modernize building components.

16. Building components will be permanently installed.

18. This request will require help from the occupants of the buildings being addressed.

Fiscal Year: 2019

				Capital Proje	ect Request					
roject Title:	Facility Assessn	nent for Sustainable B						Fiscal Year:		2019
urpose:	Feasibility Study		ssification: Buil	lding		Status:	Amended Reques	t from the Prior	CIP	
epartment:	Public Works - Bu	ilding Maintenance				Supports:	Other (see below	for information)		
artners:	Needham Public	Schools				Useful Life:	More than eight (8) years		
				Parameters					Re	esponse
. Are there any co	osts to bid, design,	construct, purchase, inst	all, implement, or oth	herwise complet	e the project which	are NOT include	ed is this request?		No	
. Are there recom	nmendations or cos	sts identified by other de	partments which are	NOT factored in	to the request?				No	
. Does this projec	ct require any perm	itting by any Town or Sta	ite agency?						No	
. If this request is	for Technology, ha	as the Department comm	unicated with ITC, ar	nd does ITC supp	ort the request?				No	
. If this request is	for Building Impro	vements, has the Depart	ment communicated	with the Buildin	g Maintenance (BN	I) division, and o	loes BM support the r	equest?	Yes	
. If funded, will a	dditional permaner	nt staff be required?					Total New FTE's:	0	No	
. If funded, will th	ne operating budge	t need to be increased to	cover operating exp	enses?			•	•	No	
. If funded, will th	nis project lower th	e requesting Department	's operating costs?						No	
. If funded, will th	nis project require (ongoing assistance from v	vendors at an additio	nal expense to t	he Town which is N	OT already budg	eted?		No	
		current Town revenue be							No	
1. Is specialized t	raining or annual li	censing required that the	Town will need to pa	ay in order to us	e the asset?				No	
2. Is this a projec	t for which an Initia	al Eligibility Project Applic	ation can be filed wi	th the Communi	ty Preservation Con	nmittee (CPC)?			No	
3. Is this a reques	st in response to a	Court, Federal, or State o	rder?						No	
4. Is this a reques	st in response to a	documented public healt	h or safety condition	?					No	
5. Is this a reques	st to improve or ma	ake repairs to extend the	useful life of a buildin	ng?					Yes	
6. Is this a reques	st to purchase appa	ratus/equipment that is	intended to be perma	anently installed	at the location of it	s use?			No	
7. Is this a reques	st to repair or othe	rwise improve public pro	perty which is NOT a	building or infra	structure?				No	
8. Will any other	department be rec	uired to provide assistan	ce in order to comple	ete the project?					Yes	
9. If funded, will	this project increas	e the operating expense	for any other depart	ment?					No	
roject Cost:	\$100,000	How was the Project C	Cost Determined:		Industry References	5				
udget Impact:	Negligible impact	on the annual operating	expenses less than \$	5,000				-		
Project Bud	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibilit	ty	\$0								
esign/Engineerin	g	\$100,000	\$100,000							
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures	, and Equipment	\$0								
echnology Hardw		\$0								
ther Expenses		\$0								
		\$100,000	\$100,000	\$0	\$0		\$0 \$(\$0	

Capital Project Request		
oject Title: Facility Assessment for Sustainable Building Management	Fiscal Year:	2019
Project Description and Considerations		
his is a request for the assessments of public buildings throughout the Town and School Department in order to fully determine the co eplacement needs and costs. We will use the results of the facility assessments to dictate future projects for Facilities Maintenance Art		pair and
FY19, the division requests that a facility assessment be done on the Broadmeadow and Eliot Elementary Schools. Both buildings will equire upgrades beyond general maintenance. An assessment would be done on facility conditions including HVAC systems, plumbing, ddress the facility needs.		
/e will evaluate other buildings as they approach their individual 20 year marks to see if they require any upgardes. This will be used to uildings as they age and require more than average maintenance. It will assist the division in prioritizing projects deemed necessary or seful in creating and maintaining sustainable buildings.		•
upports Other: Supports building infrastructure.		
. This is a Building Maintenance request. 5. This study is anticipated to make recommendations that will extend the life of the building in a sustainable way. 8. Assistance will be required from the School Department.		

				Capital Project Re	quest				
Project Title:	Harris Ave Park	ing Lot						Fiscal Year:	2023
Purpose:	Construction	C	lassification: Infras	tructure	Sta	atus:	Informational Only		e
Department:		ilding Maintenance			Su	pports:	Transportation Net		
Partners:	School Departme	nt			Us	eful Life:	More than twelve (12) years	
				irameters					<u>Response</u>
			tall, implement, or othe			e NOT include	d is this request?		No
. Are there recom	mendations or cos	sts identified by other de	epartments which are N	OT factored into the	request?				No
 Does this project 	t require any perm	itting by any Town or St	tate agency?						Yes
4. If this request is	for Technology, ha	as the Department comr	municated with ITC, and	does ITC support the	e request?				No
5. If this request is	for Building Impro	vements, has the Depar	tment communicated w	ith the Building Mair	ntenance (BM)	division, and d	oes BM support the re	quest?	Yes
5. If funded, will ad	ditional permaner	nt staff be required?					Total New FTE's:	0	No
7. If funded, will th	e operating budge	t need to be increased t	to cover operating exper	ises?					No
3. If funded, will th	is project lower th	e requesting Departmer	nt's operating costs?						No
9. If funded, will th	is project require o	ongoing assistance from	vendors at an additiona	I expense to the Tow	n which is NOT	already budge	eted?		No
10. If the project is	NOT funded, will	current Town revenue b	e reduced?						No
1. Is specialized tr	aining or annual li	censing required that th	e Town will need to pay	in order to use the a	isset?				No
2. Is this a project	for which an Initia	al Eligibility Project Appl	ication can be filed with	the Community Pres	ervation Comm	ittee (CPC)?			No
13. Is this a request	t in response to a (Court, Federal, or State	order?						No
4. Is this a request	t in response to a o	documented public heal	th or safety condition?						No
15. Is this a request	t to improve or ma	ake repairs to extend the	e useful life of a building	?					No
L6. Is this a request	t to purchase appa	ratus/equipment that is	s intended to be perman	ently installed at the	location of its u	ise?			Yes
17. Is this a request	t to repair or othe	rwise improve public pro	operty which is NOT a bu	uilding or infrastructu	ıre?				No
18. Will any other o	department be req	uired to provide assista	nce in order to complete	e the project?					Yes
L9. If funded, will t	his project increas	e the operating expense	e for any other departme	ent?					No
Project Cost:	\$525,000	How was the Project	Cost Determined:	In-Hou	se Estimate				-
Budget Impact:	Negligible impact	on the annual operatin	g expenses less than \$5,	000					
	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility	y	\$0							
Design/Engineerin	B	\$25,000					\$25,000		
and/ROW Acquisi	tion	\$0							
ite Preparation		\$0							
Construction		\$500,000						\$500,000)
Construction Mana	agement	\$0							
quipment		\$0							
urniture, Fixtures,	, and Equipment	\$0							
Fechnology Hardw	are/Software	\$0							
Other Expenses		\$0							
		\$525,000	\$0	\$0	\$0		\$25,000	\$500,000)

		Capital Project Request		
Project Title:	Harris Ave Parking Lot		Fiscal Year:	2023
		Project Description and Considerations		
different parkin	g areas. The area to the left is the large main p	sign to update the parking lot on Harris Avenue at the Pollard School. The Harris arking lot. The area to the right was converted to a temporary paved parking lo	t that was not constructed with th	e intention of

different parking areas. The supporting automotive vehicles. Both parking lots suffer from structural deficiencies and lack of drainage. Additionally, due to the expanding student population at the Pollard, as well as additional educational requirements, such as Special Education, there is a need for more staff and visitor parking. Currently, visitors park in the bus loop after hours or along the road. This design will look at the renovation of the existing lot, including capturing additional space where possible. The construction phase will follow in FY24, allowing for a proper design to be in place.

3. This request may be subject to Planning Review, Conservation Commission, Street Opening Permits, and Building Permits.

5. This is a Building Maintenance request.

16. The parking lot will be permanently installed.

18. This request will require support form Highway and the School Department.

				Capital P	roject Request					
Project Title:	High Rock Lock	er Room Upgrades							Fiscal Year:	2023
Purpose:	Construction		Classification:	Building		Statu	is:	New Request		
Department:		ilding Maintenance				Supp	orts:	Other (see below f		
Partners:	School Departme	nt				Usef	ul Life:	More than twelve	(12) years	
				Parameters						<u>Response</u>
L. Are there any co	sts to bid, design,	construct, purchase, ir	istall, implement,	or otherwise com	plete the project	which are I	NOT included	is this request?		No
. Are there recom	mendations or cos	sts identified by other o	departments which	ch are NOT factore	d into the reques	t?				No
 Does this project 	t require any perm	itting by any Town or S	State agency?							Yes
I. If this request is	for Technology, ha	as the Department com	nmunicated with	ITC, and does ITC s	upport the reque	st?				No
5. If this request is	for Building Impro	vements, has the Depa	artment commun	icated with the Bui	lding Maintenand	e (BM) div	vision, and do	es BM support the r	equest?	Yes
5. If funded, will ad	lditional permaner	nt staff be required?						Total New FTE's:	0	No
'. If funded, will th	e operating budge	t need to be increased	to cover operation	ng expenses?				-		No
3. If funded, will th	is project lower th	e requesting Departme	ent's operating co	osts?						No
. If funded, will th	is project require o	ongoing assistance from	m vendors at an a	dditional expense	to the Town whic	h is NOT al	ready budget	ted?		No
LO. If the project is	NOT funded, will	current Town revenue	be reduced?							No
1. Is specialized tr	aining or annual li	censing required that t	he Town will nee	d to pay in order to	use the asset?					No
2. Is this a project	for which an Initia	al Eligibility Project App	olication can be fi	led with the Comm	unity Preservatio	n Committ	ee (CPC)?			No
.3. Is this a request	t in response to a (Court, Federal, or State	e order?							No
.4. Is this a request	t in response to a o	documented public hea	alth or safety con	dition?						No
5. Is this a request	t to improve or ma	ake repairs to extend the	ne useful life of a	building?						Yes
6. Is this a request	t to purchase appa	ratus/equipment that	is intended to be	permanently insta	lled at the locatio	on of its use	?			Yes
17. Is this a request	t to repair or othe	rwise improve public p	roperty which is I	NOT a building or ir	nfrastructure?					No
18. Will any other o	department be req	uired to provide assist	ance in order to o	complete the proje	ct?					Yes
19. If funded, will t	his project increas	e the operating expens	se for any other d	lepartment?						No
Project Cost:	\$220,000	How was the Projec	t Cost Determine	d:	In-House Estir	mate				-
Budget Impact:	Negligible impact	on the annual operati	ng expenses less	than \$5,000						
Project Bud	get Elements	Project Budget	2019	2020	2021		2022	2023	2024	2025
lanning/Feasibility	ý	\$0								
Design/Engineering	5	\$20,000						\$20,000)	
and/ROW Acquisi	tion	\$0								
ite Preparation		\$0								
Construction		\$200,000							\$200,00	0
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures,	and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
			\$		50	\$0		0 \$20,000		D

Project Title:	High Rock Locker Room Upgrades	

Project Description and Considerations

Fiscal Year:

2023

Capital Project Request

The existing locker rooms at the High Rock School are not sufficient for the number of students who need to utilize it daily. The High Rock School serves the sixth grade population of Needham, and conducts daily physical education classes which require students to change their clothes. The current space is insufficient for an entire class of students to utilize at one time. There are not enough lockers in each space to accommodate the 60 students in each class (30 boys and 30 girls). It is a struggle to get students sufficient time to change in and out of their gym clothing and on to other activities in a timely fashion and that time takes away from the learning environment. This request would renovate the two existing locker rooms, making each locker room able to serve at least 30 students at a time. It would evaluate the space and the space surrounding the gym to find appropriate space and determine the best design allowing for appropriately sized lockers and locker rooms.

Supports Other: Supports building infrastructure.

- 3. Building permits will be required.
- 5. This is a Building Maintenance request.
- 15. This will improve the existing locker rooms, increasing their lifespan.
- 16. The lockers will be permanently installed.
- 18. This request will require assistance from the School Department.

				Capital Proj	ect Request					
Project Title:	Mitchell Bathroom Upg	grades						Fiscal Year:	2	021
Purpose:	Construction	Classifi	cation: Bu	uilding		Status:	New Request			
Department:	Public Works - Building Ma	aintenance				Supports:		v for information)		
Partners:	School Department					Useful Life:	More than twen	ty-five (25) years		
				Parameters						<u>ponse</u>
L. Are there any co	sts to bid, design, construc	t, purchase, install, ir	mplement, or a	otherwise comple	te the project which	are NOT include	ed is this request?		No	
. Are there recom	mendations or costs identi	fied by other departr	ments which ar	re NOT factored in	nto the request?				No	
 Does this project 	t require any permitting by	any Town or State a	gency?						Yes	
1. If this request is	for Technology, has the De	partment communic	ated with ITC,	and does ITC sup	port the request?				No	
5. If this request is	for Building Improvements	, has the Departmen	t communicate	ed with the Buildi	ng Maintenance (BN	 division, and a 	loes BM support the	e request?	Yes	
5. If funded, will ad	lditional permanent staff be	e required?					Total New FTE's	: 0	No	
. If funded, will th	e operating budget need to	be increased to cov	er operating ex	kpenses?					No	
3. If funded, will th	is project lower the reques	ting Department's op	perating costs?						No	
9. If funded, will th	is project require ongoing a	assistance from vend	ors at an addit	ional expense to	the Town which is N	OT already budg	eted?		No	
LO. If the project is	NOT funded, will current T	own revenue be red	uced?						No	
1. Is specialized tr	aining or annual licensing r	equired that the Tow	vn will need to	pay in order to u	se the asset?				No	
2. Is this a project	for which an Initial Eligibili	ty Project Applicatio	n can be filed v	vith the Commun	ity Preservation Cor	nmittee (CPC)?			No	
3. Is this a request	t in response to a Court, Fe	deral, or State order	?						No	
4. Is this a request	t in response to a documen	ted public health or	safety conditio	n?					No	
5. Is this a request	t to improve or make repai	rs to extend the usef	ul life of a build	ding?					Yes	
L6. Is this a request	t to purchase apparatus/eq	uipment that is inter	nded to be perr	manently installed	d at the location of i	ts use?			Yes	
L7. Is this a request	t to repair or otherwise imp	prove public property	y which is NOT	a building or infra	astructure?				No	
18. Will any other o	department be required to	provide assistance ir	n order to comp	plete the project?)				Yes	
L9. If funded, will t	his project increase the ope	erating expense for a	iny other depai	rtment?					No	
Project Cost:	\$660,000 How w	vas the Project Cost I	Determined:		Industry Reference	S			=	
Budget Impact:	Negligible impact on the a	innual operating expe	enses less than	\$5,000						
		ect Budget	2019	2020	2021	2022	2023	2024	20	025
lanning/Feasibility	/	\$0								
Design/Engineering	5	\$60,000			\$60,000					
and/ROW Acquisi	tion	\$0								
ite Preparation		\$0								
Construction		\$600,000				\$600,0	000			
Construction Mana	igement	\$0								
quipment		\$0								
urniture, Fixtures,	and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								

Project Title:	Mitchell Bathroom Upgrades

Project Description and Considerations

Capital Project Request

This request is to upgrade the six existing bathrooms at the Mitchell School and provide two additional Staff Only accessible bathrooms. This would include making them ADA/MAAB accessible. Many of the existing plumbing fixtures are 40 to 60 years old. This upgrade would include replacing them with new water saving fixtures. The current stalls are not the proper size and do not include grab bars. The urinals and dispensers are not set at the proper height. There are no insulated pipes at the sink. In order to meet ADA/MAAB requirements, the clearance for the entrance and turning circle will need to be increased, and the door hardware will need to be upgraded. The Building Maintenance Division would partner with the School Department and go out for a design in FY21 and then construction in FY22. This would allow them time to fully investigate the needs of the school.

Supports Other: Supports building infrastructure.

3. Building and electrical permits will be required.

5. This is a Building Maintenance request.

15. This request will improve the bathrooms and extend their usage.

16. All fixtures will be permanently installed.

18. Assistance will be required from the School Department.

Fiscal Year:

2021

				Capital Pr	oject Request					
Project Title:	Mitchell Locker	r Replacement						Fiscal Year:	2019	
Purpose:	Construction		Classification: Bu	uilding		Status:	New Requ	iest		
Department:	Public Works - Bu	uilding Maintenance				Supports:		e below for information)		
Partners:	School Departme	nt				Useful Life:	More than	n twelve (12) years		
				Parameters					<u>Response</u>	
L. Are there any co	sts to bid, design,	construct, purchase, in:	stall, implement, or o	therwise comp	lete the project wh	nich are NOT ind	cluded is this reque	est?	No	
2. Are there recom	mendations or cos	sts identified by other d	lepartments which ar	e NOT factored	d into the request?				No	
 Does this project 	require any perm	nitting by any Town or S	state agency?						No	
4. If this request is t	for Technology, ha	as the Department com	municated with ITC, a	and does ITC su	upport the request?	?			No	
5. If this request is t	for Building Impro	vements, has the Depa	rtment communicate	d with the Buil	ding Maintenance	(BM) division, a	and does BM supp	ort the request?	Yes	
5. If funded, will ad	ditional permane	nt staff be required?					Total New	FTE's: 0	No	
		t need to be increased							No	
3. If funded, will thi	is project lower th	e requesting Departme	ent's operating costs?						No	
		ongoing assistance fron		ional expense t	o the Town which i	is NOT already b	oudgeted?		No	
LO. If the project is	NOT funded, will	current Town revenue l	be reduced?						No	
		censing required that th							No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?										
 Is this a request 	t in response to a	Court, Federal, or State	order?						No	
		documented public hea							No	
		ake repairs to extend th							Yes	
		aratus/equipment that i				of its use?			Yes	
		rwise improve public pr							No	
		quired to provide assista			ct?				Yes	
		e the operating expens	e for any other depar	tment?	-				No	
	\$70,000	How was the Project			Industry Referer	nces				
- ·		on the annual operatir	ng expenses less than	\$5,000						
	get Elements	Project Budget	2019	2020	2021	2022	202	2024 2024	2025	
Planning/Feasibility		\$0								
Design/Engineering		\$0								
and/ROW Acquisit	tion	\$0								
ite Preparation		\$0								
Construction		\$70,000	\$70,000							
Construction Mana	gement	\$0								
quipment		\$0								
urniture, Fixtures,		\$0								
echnology Hardwa	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$70,000	\$70,000	\$		\$0			\$0	

Project Title: Mitchell Locker Replacement

Project Description and Considerations

Capital Project Request

The current lockers at the Mitchell School are in need of repair. They are not appropriately sized for the school age population at the Mitchell and are broken. This request is to replace the existing lockers with lockers that are better suited for elementary school children. The Mitchell School is not scheduled to be renovated for at least ten years and this would help to improve the appearance as well as the functionality of the school. There are three different types of lockers at the Mitchell. One set require two students to share each locker. One set is too narrow to store backpacks. This results in the locker doors remaining open, which is dangerous in the hallways. The last set just needs refurbishment. The replacement lockers would be stacked on top of each other in order to accommodate wider lockers. These lockers would be easier for elementary aged students to store their backpacks and other items in, as well as be easier to open and close. This will allow each student to have their own locker.

Supports Other: Supports building infrastructure.

5. This is a Building Maintenance request.

15. This request will improve the bathrooms and extend their useful life.

16. All fixtures will be permanently installed.

18. Assistance will be required from the School Department.

2019

Fiscal Year:

				Capital Project	Request				
Project Title: F	Pollard AC Upg	rades					F	iscal Year:	2022
	Construction		ssification: Build	ding	St	atus:	Informational Only D	etails Incomplet	e
Department: P	Public Works - Bu	ilding Maintenance			Su	pports:	Other (see below for	information)	
Partners: S	School Departme	nt			Us	eful Life:	More than twelve (12	2) years	
				Parameters					Response
1. Are there any cost	ts to bid, design,	construct, purchase, insta	all, implement, or oth	erwise complete th	e project which a	e NOT included i	s this request?		No
2. Are there recomm	endations or cos	sts identified by other dep	partments which are I	NOT factored into t	he request?				No
Does this project r	require any perm	itting by any Town or Sta	ite agency?						No
4. If this request is fo	or Technology, ha	as the Department comm	unicated with ITC, an	d does ITC support	the request?				No
5. If this request is fo	or Building Impro	vements, has the Departi	ment communicated	with the Building M	aintenance (BM)	division, and doe	es BM support the requ	uest?	Yes
5. If funded, will add	itional permaner	nt staff be required?					Total New FTE's: 0		No
7. If funded, will the	operating budge	t need to be increased to	cover operating expe	enses?					No
3. If funded, will this	project lower th	e requesting Department	's operating costs?						No
9. If funded, will this	project require of	ongoing assistance from v	vendors at an additior	nal expense to the T	own which is NO	already budgete	ed?		No
10. If the project is N	IOT funded, will o	current Town revenue be	reduced?						No
11. Is specialized trai	ining or annual li	censing required that the	Town will need to pa	y in order to use th	e asset?				No
12. Is this a project for	or which an Initia	al Eligibility Project Applic	ation can be filed wit	h the Community P	reservation Comm	ittee (CPC)?			No
13. Is this a request i	n response to a (Court, Federal, or State o	rder?						No
14. Is this a request i	n response to a d	documented public health	n or safety condition?						No
15. Is this a request t	to improve or ma	ke repairs to extend the	useful life of a buildin	g?					No
16. Is this a request t	to purchase appa	ratus/equipment that is i	intended to be perma	nently installed at t	the location of its	use?			No
		wise improve public prop			cture?				No
18. Will any other de	epartment be req	uired to provide assistan	ce in order to comple	te the project?					Yes
19. If funded, will thi	is project increas	e the operating expense	for any other departn						Yes
	\$1,225,000	How was the Project C			ustry References				
0 1		ual operating expenses b	etween \$5,001 and \$	25,000					
Project Budge	et Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility		\$0							
Design/Engineering		\$100,000				\$100,000			
Land/ROW Acquisition	on	\$0							
Site Preparation		\$0							
Construction		\$1,125,000					\$550,000	\$575,000	
Construction Manag	ement	\$0							
quipment		\$0							
Furniture, Fixtures, a		\$0							
Technology Hardwar	re/Software	\$0							
Other Expenses		\$0							
TOTAL		\$1,225,000	\$0	\$0	\$0	\$100,000	\$550,000	\$575,000	

	Capital Project Request									
Project Title:	Pollard AC Upgrades		Fiscal Year:	2022						
	-	Project Description and Considerations								
the building and an important as the building wo	d would address which method of supplemental AC pect of school maintenance. This would help to ad uld make the Pollard more ideal for use in the sum	approximately one third of the building. This request would evaluate the space to c c, roof top units or window units, would be most efficient. The comfort and temper dress those concerns, especially since school is starting in August, earlier than befor mer. Currently, the Pollard is underutilized during the summer for summer program d during the summer when other schools are closed for renovations.	rature of the educational lea ore. Additionally, providing A	arning space is AC throughout						

Supports Other: Supports building infrastructure.

5. This is a Building Maintenance request.

18. Assistance will be required from the School Department.

19. The building is currently not air conditioned. Installing air conditioning throughout the building will increase energy costs, which are handled by the Needham ELG.

				Capital Proje	ect Request					
Project Title:	Pollard Blue an	d Green Gym Upgrad						Fiscal Year:	201	19
urpose:	Construction		assification: Bui	ilding	5	tatus:	Amended Reques	t from the Prior C	P	
epartment:		uilding Maintenance				upports:	Other (see below			
artners:	Needham Public	Schools			ι	Jseful Life:	More than eightee	en (18) years		
				Parameters					<u>Respo</u>	onse
Are there any c	osts to bid, design,	construct, purchase, inst	tall, implement, or ot	herwise complet	e the project which a	are NOT included	d is this request?		No	
. Are there recor	nmendations or co	sts identified by other de	partments which are	e NOT factored in	to the request?				No	
. Does this proje	ct require any perm	nitting by any Town or St	ate agency?						Yes	
. If this request is	s for Technology, h	as the Department comr	nunicated with ITC, a	nd does ITC supp	ort the request?				No	
. If this request is	s for Building Impro	ovements, has the Depar	tment communicated	d with the Buildin	g Maintenance (BM)	division, and do	oes BM support the r	equest?	Yes	
. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:	0	No	
. If funded, will t	he operating budge	et need to be increased t	o cover operating exp	penses?					No	
. If funded, will t	his project lower th	ne requesting Departmer	it's operating costs?						Yes	
. If funded, will t	his project require	ongoing assistance from	vendors at an addition	onal expense to tl	ne Town which is NC	T already budge	eted?		No	
.0. If the project i	is NOT funded, will	current Town revenue b	e reduced?						No	
1. Is specialized t	training or annual li	censing required that th	e Town will need to p	bay in order to us	e the asset?				No	
2. Is this a project	ct for which an Initia	al Eligibility Project Appli	cation can be filed w	ith the Communi	ty Preservation Com	mittee (CPC)?			No	
3. Is this a reque	st in response to a	Court, Federal, or State o	order?						No	
4. Is this a reque	st in response to a	documented public heal	th or safety condition	۱?					No	
.5. Is this a reque	st to improve or ma	ake repairs to extend the	useful life of a build	ing?					Yes	
.6. Is this a reque	st to purchase appa	aratus/equipment that is	intended to be perm	nanently installed	at the location of its	use?			Yes	
17. Is this a reque	st to repair or othe	rwise improve public pro	perty which is NOT a	a building or infra	structure?				No	
.8. Will any other	department be red	quired to provide assista	nce in order to comp	lete the project?					Yes	
.9. If funded, will	this project increas	se the operating expense	for any other depart	tment?					No	
Project Cost:	\$570,000	How was the Project	Cost Determined:		ndustry References					
Budget Impact:	Negligible impact	t on the annual operating	g expenses less than S	\$5,000						
Project Bu	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024	202	25
lanning/Feasibili	ty	\$0								
esign/Engineerir	ng	\$0								
and/ROW Acquis	sition	\$0								
ite Preparation		\$0								
Construction		\$570,000	\$540,000	\$30,000						
onstruction Man	nagement	\$0								
quipment		\$0								
urniture, Fixture	s, and Equipment	\$0								
echnology Hardw	ware/Software	\$0								
		\$0								
Other Expenses										A

Capital Project Request		
oject Title: Pollard Blue and Green Gym Upgrades	Fiscal Year:	2019
Project Description and Considerations		
The Pollard gyms were identified in the feasibility study conducted in 2011 as in need of upgrades and have additionally been identified by the Director or mprovement. These improvements consist of replacing the present rubber flooring with another material that is more appropriate for basketball use, up along the side of the gym for safety. Lighting upgrades were completed under the Energy Efficient Upgrades request in FY16.		
In FY19, this project would replace the flooring only in the Blue and Green Gyms. The present rubber flooring is not ideal for basketball use and this build and community basketball groups due to its size. The rubber flooring will be replaced by a new type of flooring that would have the same bounce as woo usage, but does not have the ADA/MAAB accessible issues that wood flooring presents. Additionally, work will be done to improve the functionality and the siding will be removed and replaced. The Blue Gym will also be painted to brighten the area. Backboards and winch mechanisms on the basketball ho mechanisms will be installed on hoops that do not currently have them. Padding will also be installed behind all backboards. In the Green Gym, two section 15'x15' each, will be installed in order to accommodate classes.	d flooring required for safety of both gyms. In ops will be replaced ar	basketball the Blue Gym, nd winch
n FY20, the scoreboards in both gyms will be removed and replaced. Shot clocks will be installed in the Green Gym. The basketball scoreboard and shot useful life and the technology is outdated. The current system is based on incandescent bulb technology, which is not energy efficient. The replacement w scoreboard and one set of shot clocks with wireless controls and technology in each gym.		-
Supports Other: Supports building infrastructure.		
 Building and electrical permits will be required. This is a request for the Building Maintenance Division Energy efficiency upgrades will reduce energy costs, no longer included in Building Maintenance's budget. This request will modernize building components, thereby maximizing the usefulness of this building. 		
16. Flooring and wall coverings will be permanently installed. 18. This request will require assistance from the School Department and the Athletics Department.		

				Capital Project	Request					
Project Title:	Pollard Locker	Room Retrofit						Fiscal Year:	202	21
Purpose:	Construction		assification: Build	ling	Sta	atus:	Amended Request	from the Prior C	CIP	
Department:	Public Works - Bu	uilding Maintenance			Su	pports:	Other (see below f	or information)		
Partners:	Needham Public	Schools			Us	eful Life:	More than twenty-	five (25) years		
			<u>P</u>	arameters					<u>Respo</u>	onse
1. Are there any co	osts to bid, design,	construct, purchase, inst	all, implement, or oth	erwise complete t	he project which ar	e NOT included	is this request?		No	
2. Are there recon	nmendations or cos	sts identified by other de	partments which are N	NOT factored into	the request?				No	
3. Does this projec	ct require any perm	nitting by any Town or St	ate agency?						Yes	
4. If this request is	s for Technology, ha	as the Department comn	nunicated with ITC, and	d does ITC suppor	t the request?				No	
5. If this request is	s for Building Impro	ovements, has the Depart	ment communicated v	with the Building I	Maintenance (BM)	division, and do	es BM support the re	equest?	Yes	
6. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:	0	No	
7. If funded, will th	he operating budge	et need to be increased to	o cover operating expe	enses?					No	
8. If funded, will th	his project lower th	e requesting Departmen	t's operating costs?						No	
9. If funded, will th	his project require	ongoing assistance from	vendors at an addition	al expense to the	Town which is NOT	already budget	ted?		No	
10. If the project is	s NOT funded, will	current Town revenue b	e reduced?						No	
11. Is specialized t	training or annual li	censing required that the	e Town will need to pa	y in order to use t	he asset?				No	
L2. Is this a projec	ct for which an Initia	al Eligibility Project Appli	cation can be filed with	h the Community	Preservation Comm	ittee (CPC)?			No	
13. Is this a reques	st in response to a	Court, Federal, or State o	order?						No	
L4. Is this a reques	st in response to a	documented public healt	h or safety condition?						No	
15. Is this a reques	st to improve or ma	ake repairs to extend the	useful life of a buildin	g?					Yes	
		aratus/equipment that is			the location of its u	ıse?			Yes	
17. Is this a reques	st to repair or othe	rwise improve public pro	perty which is NOT a b	ouilding or infrastr	ucture?				No	
18. Will any other	department be rec	quired to provide assista	nce in order to comple	te the project?					Yes	
19. If funded, will	this project increas	e the operating expense	for any other departm	nent?					No	
Project Cost:	\$690,000	How was the Project	Cost Determined:	Inc	lustry References					
Budget Impact:	Negligible impact	on the annual operating	g expenses less than \$5	5,000						
Project Buc	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024	202	25
Planning/Feasibilit	ty	\$0								
Design/Engineerin	ng	\$60,000			\$60,000					
and/ROW Acquis	sition	\$0								
Site Preparation		\$0								
Construction		\$630,000				\$630,00	0			
Construction Man	agement	\$0								
quipment		\$0								
	s, and Equipment	\$0								
Fechnology Hardw	ware/Software	\$0								
Other Expenses		\$0								
Other Expenses		· · · · · · · · · · · · · · · · · · ·	\$0						\$0	

	Capital Project Request		
roject Title:	Pollard Locker Room Retrofit	Fiscal Year:	2021
	Project Description and Considera	tions	
This request is to fixtures, and pai	o retrofit the locker rooms at the Pollard Middle School. This project would include removing ex inting.	isting lockers, installing new lockers, replacing existing tile and	bathroom
current lockers a to accommodate outdated and ar	locker rooms will make the space more functional. The school has been offering more sports pr are all the same size and are not sufficient for much of the equipment needed to be stored in th the the varying needs of the students. The tile flooring is starting to crack in places and will need r re in need of an upgrade. These bathroom fixtures, in addition to the showers, will need to be a e the current appearance.	e locker rooms during the day. The school is in need of a variet eplacing before becoming a safety hazard. Additionally, the bat	of locker sizes hrooms are
	ision will work with a consultant on a design for the locker room retrofit. The designer will help the variety of needs. The construction phase will be done in FY22.	to recommend the most efficient layout for the locker rooms in	order to
Supports Other:	Supports building infrastructure.		
 This request This request All components 	ctrical, and plumbing permits will be required. is for the Building Maintenance Division. : is necessary to extend the life of the building. ents will be permanently installed. : will require assistance from the School Department.		

				Capital Proje	ect Request					
roject Title:	Upgrade Boile	[.] #1 at Hillside						Fiscal Year:	2	020
urpose:	Construction		assification: Bui	ilding	S	tatus:	New Reque			
epartment:	Public Works - B	uilding Maintenance			S	upports:	Other (see b	elow for information)		
artners:	School Departme	ent			L	lseful Life:	More than t	wenty-five (25) years		
				Parameters					Res	sponse
. Are there any co	osts to bid, design,	construct, purchase, inst	all, implement, or ot	herwise complet	e the project which a	re NOT include	d is this reques	t?	No	
. Are there recom	mendations or co	sts identified by other de	partments which are	e NOT factored in	to the request?				No	
		nitting by any Town or St							Yes	
. If this request is	for Technology, h	as the Department comn	nunicated with ITC, a	nd does ITC supp	ort the request?				No	
. If this request is	for Building Impro	ovements, has the Depart	ment communicated	d with the Buildin	g Maintenance (BM)	division, and o	loes BM suppor	t the request?	Yes	
. If funded, will ad	ditional permane	nt staff be required?					Total New F	TE's: 0	No	
. If funded, will th	e operating budge	et need to be increased to	o cover operating exp	penses?					No	
. If funded, will this project lower the requesting Department's operating costs?										
. If funded, will this project require ongoing assistance from vendors at an additional expense to the Town which is NOT already budgeted?										
0. If the project is	NOT funded, will	current Town revenue b	e reduced?						No	
1. Is specialized tr	raining or annual l	icensing required that the	e Town will need to p	bay in order to us	e the asset?				No	
Is this a project	t for which an Initi	al Eligibility Project Appli	cation can be filed w	ith the Communi	ty Preservation Com	mittee (CPC)?			No	
3. Is this a request	t in response to a	Court, Federal, or State o	order?						No	
4. Is this a request	t in response to a	documented public healt	h or safety condition	1?					No	
5. Is this a request	t to improve or m	ake repairs to extend the	useful life of a buildi	ing?					Yes	
6. Is this a request	t to purchase app	aratus/equipment that is	intended to be perm	anently installed	at the location of its	use?			Yes	
7. Is this a request	t to repair or othe	rwise improve public pro	perty which is NOT a	i building or infra	structure?				No	
8. Will any other o	department be re	quired to provide assista	nce in order to compl	lete the project?					Yes	
9. If funded, will t	his project increa	se the operating expense	for any other depart						No	
-]	\$231,000	How was the Project			Industry References				-	
udget Impact:	Negligible impac	t on the annual operating	expenses less than s	\$5,000						
	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	025
lanning/Feasibility	У	\$0								
esign/Engineering	-	\$11,000		\$11,000						
and/ROW Acquisi	tion	\$0								
ite Preparation		\$0								
onstruction		\$220,000			\$220,000					
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures,		\$0								
echnology Hardw	are/Software	\$0								
ther Expenses		\$0								
OTAL		\$231,000	\$0	\$11,000	\$220,000		\$0	\$0	\$0	

Capital Project Request

Project Title: Upgrade Boiler #1 at Hillside

Project Description and Considerations

The Hillside School has two cast iron boilers that it relies on to heat the school. Boiler #1 has a leak that needs to be repaired. Since the Town plans on maintaining the Hillside as swing space, the Building Maintenance Division needs to address the deficiencies in boiler #1. Up until the Town was able to acquire the Owens' Property to construct a replacement for the Hillside Elementary School, it was conceived that the Hillside School, as it presently stands, would be torn down. With the construction of the school on an alternative location, the Hillside School looks as if it will be used for many purposes at least through the next decade. The existing boilers are from the renovation in 1998 and are approaching their 20 year life cycle. A study conducted in 2011 indicated that they should last for a few more years without major issues. Not only have we passed that time period, but we are anticipating that we will need to keep the boilers functioning into the future. The study recommended replacing the existing boilers with high efficiency condensing boilers. One of the main concerns with this older boiler is that many of the parts are no longer manufactured, so repairing the boiler becomes increasingly difficult.

Supports Other: Supports building infrastructure.

- 3. This request will require a Building Permit.
- 5. This is a Building Maintenance request.
- 15. Upgrading the boiler will help to keep the building in use in the future.
- 16. The boiler will be permanently installed at the school.
- 18. Assistance from the School Department will be required.

Fiscal Year:

				Capital Projec	t Request					
Project Title:	Library Furnitu	re						Fiscal Year:	20	019
Purpose:	Acquisition	C	lassification: Eq	uipment	Sta	atus:	Amended Requ	est from the Prior	CIP	
Department:	Library				Su	pports:	Culture and Leis	ure		
artners:					Us	eful Life:	More than twel	ve (12) years		
				Parameters					Resp	oonse
. Are there any co	osts to bid, design,	construct, purchase, ins	tall, implement, or o	therwise complete t	the project which ar	e NOT included i	s this request?		Yes	
. Are there recom	nmendations or cos	sts identified by other de	epartments which are	e NOT factored into	the request?				No	
. Does this projec	t require any perm	nitting by any Town or St	ate agency?						No	
. If this request is	for Technology, ha	as the Department comr	nunicated with ITC, a	and does ITC suppor	t the request?				No	
. If this request is	for Building Impro	vements, has the Depar	tment communicate	d with the Building	Maintenance (BM)	division, and doe	s BM support the	e request?	No	
. If funded, will a	dditional permane	nt staff be required?					Total New FTE's	: 0	No	
. If funded, will th	ne operating budge	t need to be increased t	o cover operating ex	penses?					No	
. If funded, will th	nis project lower th	e requesting Departmer	nt's operating costs?						No	
. If funded, will th	nis project require	ongoing assistance from	vendors at an additi	onal expense to the	Town which is NOT	already budgete	ed?		No	
0. If the project is	NOT funded, will	current Town revenue b	e reduced?						No	
1. Is specialized to	raining or annual li	censing required that th	e Town will need to	pay in order to use t	the asset?				No	
2. Is this a project	t for which an Initia	al Eligibility Project Appl	ication can be filed w	vith the Community	Preservation Comm	ittee (CPC)?			No	
3. Is this a reques	st in response to a	Court, Federal, or State	order?						No	
4. Is this a reques	st in response to a	documented public heal	th or safety condition	n?					No	
5. Is this a reques	t to improve or ma	ake repairs to extend the	e useful life of a build	ling?					No	
6. Is this a reques	st to purchase appa	aratus/equipment that is	intended to be pern	nanently installed at	t the location of its ι	use?			Yes	
7. Is this a reques	st to repair or othe	rwise improve public pro	operty which is NOT a	a building or infrasti	ructure?				No	
.8. Will any other	department be rec	quired to provide assista	nce in order to comp	lete the project?					Yes	
9. If funded, will t	this project increas	e the operating expense	e for any other depar	tment?					No	
Project Cost:	\$322,852	How was the Project	Cost Determined:	Inc	dustry References					
udget Impact:	Negligible impact	on the annual operating	g expenses less than	\$5,000						
Project Bud	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024	20)25
lanning/Feasibilit	Σ γ	\$0								
esign/Engineerin	g	\$0								
and/ROW Acquisi	ition	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures	, and Equipment	\$322,852	\$43,970	\$112,960	\$82,740	\$83,182				
echnology Hardw	vare/Software	\$0								
Other Expenses		\$0								
		· · · · · · · · · · · · · · · · · · ·				\$83,182				

Project Title: Library Furniture Fiscal Year: 2019 \$0 Project Description and Considerations Project Description and Proven unable to be removed. The forty-two cloth public arm c		Capital Project Request		
Project Description and ConsiderationsThe "new" library has been open to the public for more than eleven years, and, due to heavy use, the furniture is beginning to show wear and tear. Both public and staff computer chairs are slowly breaking and the covering on the arms is splitting. For staff members, the computer chair is their desk chair. As staff chairs break, a public computer chair has been taken from the public computers and moved into a staff office. some of the mesh on the community Room stackable mesh chairs is unravelling, the backs are separating from the frames, and food has been public arm chairs are also beginning to show wear.The prices listed in this request were obtained from manufacturer's websites.29 Public computer chairs @ \$530 each\$15,370\$28,600			Fiscal Year:	2019
slowly breaking and the covering on the arms is splitting. For staff members, the computer chair is their desk chair. As staff chairs break, a public computer chair has been taken from the public computers and moved into a staff office. some of the mesh on the community Room stackable mesh chairs is unravelling, the backs are separating from the frames, and food has been caught in the mesh and proven unable to be removed. The forty-two cloth public arm chairs are showing the ravages of heavy use, particularly the arms of the chairs. The thirty-eight leather public arm chairs are also beginning to show wear. The prices listed in this request were obtained from manufacturer's websites. 29 Public computer chairs @ \$530 each \$15,370 25 Staff computer chairs @\$1,144 each \$28,600	0	Project Description and Considerations		
29 Public computer chairs @ \$530 each \$15,370 25 Staff computer chairs @\$1,144 each \$28,600	slowly breaking and the covering on the arms is splitting. For staff m public computers and moved into a staff office. some of the mesh on caught in the mesh and proven unable to be removed. The forty-two	embers, the computer chair is their desk chair. As staff chairs break, a the community Room stackable mesh chairs is unravelling, the backs a	public computer chair has been taken from are separating from the frames, and food h	n the Ias been
25 Staff computer chairs @\$1,144 each \$28,600	The prices listed in this request were obtained from manufacturer's w	rebsites.		
	29 Public computer chairs @ \$530 each	\$15,370		
160 Community Room audience stackable chairs @ \$706 each \$112,960	25 Staff computer chairs @\$1,144 each	\$28,600		
	160 Community Room audience stackable chairs @ \$706 each	\$112,960		
42 Public lounge chairs (cloth) @1,970 each \$82,740	42 Public lounge chairs (cloth) @1,970 each	\$82,740		
38 Public lounge chairs (leather) @ \$2,189 each \$83,182	38 Public lounge chairs (leather) @ \$2,189 each	\$83,182		
Total \$322,852	Total	\$322,852		
1. The services of a design consultant may be needed	1. The services of a design consultant may be needed			
16. All furniture would be installed at the library	16. All furniture would be installed at the library			
18. Public Facilities personnel may be needed to help move furniture	18. Public Facilities personnel may be needed to help move furniture			

				Capital Pro	ject Request					
Project Title:	Library RFID Co	onversion Project						Fiscal Year:	2	2021
Purpose:	Acquisition	C	Classification: Te	chnology		Status:	Amended Red	quest from the Prior	CIP	
Department:	Library					Supports:	Culture and Le			
Partners:						Useful Life:	More than tw	elve (12) years		
				Parameters					Re	<u>sponse</u>
. Are there any co	osts to bid, design,	construct, purchase, in	stall, implement, or o	therwise comple	ete the project which	are NOT include	ed is this request?		Yes	
. Are there recon	nmendations or cos	sts identified by other d	lepartments which are	e NOT factored i	nto the request?				No	
		nitting by any Town or S							No	
		as the Department com							No	
. If this request is	for Building Impro	ovements, has the Depa	rtment communicate	d with the Buildi	ing Maintenance (BM) division, and	does BM support t	he request?	No	
. If funded, will a	dditional permane	nt staff be required?					Total New FT	E's: 0	No	
'. If funded, will th	ne operating budge	et need to be increased	to cover operating ex	penses?					Yes	
3. If funded, will th	nis project lower th	ne requesting Departme	ent's operating costs?						No	
). If funded, will th	nis project require	ongoing assistance fron	n vendors at an additi	onal expense to	the Town which is N	DT already budg	geted?		No	
.0. If the project is	s NOT funded, will	current Town revenue	be reduced?						No	
		censing required that t							Yes	
2. Is this a projec	t for which an Initia	al Eligibility Project App	lication can be filed w	vith the Commur	nity Preservation Com	mittee (CPC)?			No	
		Court, Federal, or State							No	
4. Is this a reques	st in response to a	documented public hea	Ith or safety condition	ו?					No	
.5. Is this a reques	st to improve or ma	ake repairs to extend th	e useful life of a build	ing?					No	
6. Is this a reques	st to purchase appa	aratus/equipment that i	is intended to be pern	nanently installe	d at the location of it	s use?			Yes	
.7. Is this a reques	st to repair or othe	rwise improve public pr	roperty which is NOT a	a building or infr	astructure?				No	
18. Will any other	department be rec	quired to provide assista	ance in order to comp	lete the project	?				No	
19. If funded, will	this project increas	se the operating expens	e for any other depar	tment?					No	
Project Cost:	\$327,200	How was the Project	t Cost Determined:		Industry References				-	
Budget Impact:	May increase anr	nual operating expenses	s between \$25,001 an	d \$50,000						
Project Buc	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	2025
Planning/Feasibilit	Ξy	\$0								
Design/Engineerin	g	\$0								
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
construction		\$0								
onstruction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures	, and Equipment	\$313,766	\$0		\$313,766					
echnology Hardw	vare/Software	\$8,684			\$8,684					
Other Expenses		\$4,750			\$4,750					
TOTAL		\$327,200	\$0	\$0	\$327,200		\$0	\$0	\$0	

Capital Project Request

Project Title: Library RFID Conversion Project

\$0

Fiscal Year:

2021

Project Description and Considerations

RFID, Radio Frequency Identification, is the technology toward which libraries are migrating, as a means to increase efficiency and to cut down on repetitive action tasks. The advantages of the system include:

1. Reduction in the time necessary to check in and out library materials (in FY17 the library checked in and out more than 1,000,000 items--123,048 checkouts were done by customers on self-checkout.

- 2. Information can be read faster from the RFID tags than from barcodes
- 3. The items in a stack can be read at the same time, as opposed to barcodes that must be read one at a time. Checking a stack of materials in and out reduces repetitive action tasks, saving time and helping to avoid repetitive stress syndrome in employees
- 4. Patron self-checkout is simplified--patrons do not have to carefully line up a barcode with a laser beam
- 5. Opens the possibioity of electronic inventorying, item searching, and shelf order checking

There are forty-three Minuteman Library Network libraries. Currently (fall 2017), thirteen Minuteman libraries are using RFID; three libraries are placing RFID tags in materials (the first step in migrating to RFID); and four more have expressed interest. The current thinking and discussions at Minuteman committee meetings is that, eventually, all Minuteman libraries will move to RFID. The libraries that are now operating with RFID have formed a "service" group for interlibrary loan service. Requests from these libraries go automatically to the other RFID libraries (they are the larger libraries in the system), where items are found and requests filled faster than at the non-RFID libraries. In FY17, Needham requested 64,843 items from other libraries for the use of Needham residents. Needham sent 55,937 items to other libraries. With an RFID system that includes a portable scanner, these items could have been retrieved faster from the library's shelves, increasing the efficiency of a library employee.

Further system investigation and observation at RFID libraries, has shown that, for the RFID system to function at a peak level of efficiency, it must include an automated sorting system. In this system, materials are placed on conveyer-type equipment where the RFID tag is read and the item automatically drops into a predetermined bin of like materials. The divide can include one bin for items that are on reserve; one for items that belong to another library; one for a library's nonfiction books; one for a library's fiction books; one for a library's children's books; plus many other useful divisions. The cost for a 15-bin system has been included below.

RFID System Cost:

RFID tags:	150,000 books @ \$0.16 each	\$24,000		
	35,000 media @ \$0.63 each	\$22,050	Total	\$46,050
Conversion Statio	ons:			
	2 @ \$11,178 each		Total	\$22,356
Staff Station Equ	ipment:			
	4 Staff Staations (Circulation Desk) @ \$4,895 each	\$19,580		
	1 Portable Scanner @\$5,200	\$5,200	Total	\$24,780
Self-Checkout Eq	uipment:			
	3 Self-Checkout Stations @ \$6,860 each		Total	\$20,580
Software:	4 Staff Stations @ \$266 each	\$1,064		
	3 Self-Checkout Stations @ \$2,540 each	\$7,620	Total	\$8,684
Sorting System:	15 bin automated sorting system	\$200,000	Total	\$200,000
Installation and T	Fraining:			

		Capital Pi	oject Request			
oject Title: Library RFID Co	onversion Project	-			Fiscal Year:	2021
		<u>Supplemen</u>	ntal Information			
On-Site Tra	ining (per day)	\$2,500	Total	\$4,750		
Total Project Cost:					\$327,200	
1. The Circulation Desk are	a and adjacent lounge area wo	ould have to be rec	onfigured			
7. The Yearly Operating Bu	dget would have to be increase	ed for the cost of F	RFID tags:			
Books:	12,000 @ \$0.16 each	\$1,920				
Media	3,400 @ \$.63 each	\$2,142				
			Total	\$4,062		
and software licensing:						
4 staff stati	ons @\$266 each	\$1,064				
3 self-check	cout stations @2,540	\$7,620				
			Total	\$8,684		
and 15 bin sorting system	nmaintenance	\$17,000	Total	\$17,000		
Total yearly operating budg	et increases:				\$29,746	
11. Annual licensing listed u	under #7					
16. All equipment will be in	istalled at the library					

				Capital Proj	ject Request					
Project Title:	Athletic Fields	Master Plan						Fiscal Year:		2022
urpose:	Feasibility Study		Classification: La	nd		Status:	Amended Requ	lest from the Prior	CIP	
epartment:	Park and Recreat	tion				Supports:	Culture and Lei	sure		
artners:	DPW Parks and F	orestry Division				Useful Life:	More than twe	lve (12) years		
				Parameters					Res	<u>sponse</u>
. Are there any c	osts to bid, design,	construct, purchase, ir	istall, implement, or o	otherwise comple	te the project whi	ch are NOT inclue	ded is this request?		No	
. Are there recor	mmendations or co	sts identified by other	departments which ar	e NOT factored in	nto the request?				No	
		nitting by any Town or							No	
	If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?									
. If this request is for Building Improvements, has the Department communicated with the Building Maintenance (BM) division, and does BM support the request?									No	
6. If funded, will additional permanent staff be required? Total New FTE's:									No	
		et need to be increased							No	
. If funded, will t	his project lower th	ne requesting Departmo	ent's operating costs?						No	
. If funded, will t	his project require	ongoing assistance from	n vendors at an additi	ional expense to	the Town which is	NOT already buc	lgeted?		No	
0. If the project i	is NOT funded, will	current Town revenue	be reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?									No	
Is this a project	ct for which an Initi	al Eligibility Project App	lication can be filed w	vith the Commun	ity Preservation Co	ommittee (CPC)?			Yes	
Is this a reque	st in response to a	Court, Federal, or State	e order?						No	
 Is this a reque 	st in response to a	documented public hea	alth or safety conditio	n?					No	
		ake repairs to extend th							No	
		aratus/equipment that				f its use?			No	
		rwise improve public p		-					No	
		quired to provide assist							Yes	
9. If funded, will		se the operating expension	se for any other depar	rtment?	•				No	
Project Cost:	\$75,000	How was the Project			In-House Estimate	e				
Budget Impact:		t on the annual operati	ng expenses less than	\$5,000						
-	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	2025
lanning/Feasibili	•	\$75,000				\$75	,000			
esign/Engineerin	-	\$0								
and/ROW Acquis	sition	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Mar	nagement	\$0								
quipment		\$0								
•	s, and Equipment	\$0								
echnology Hard	ware/Software	\$0								
ther Expenses		\$0								
OTAL		\$75,000	\$0	\$0	\$	0 \$75,		\$0	\$0	

	Athletic Fields Master Plan
Project Title:	Attrietic Fields Waster Fiam

Project Description and Considerations

Capital Project Request

Fiscal Year:

The Park and Recreation Commission has been working with user groups to determine how athletic fields are being used and how best to schedule the athletic fields to provide optimal use without jeopardizing the maintenance plan. The organizations and the Commission need to do some additional work together before the scope of a master plan can be created.

Renovations have occurred at several parks, and some school sites will be improved in upcoming years. The study would help the Commission determine whether new athletic fields are needed to accommodate the need and provide feasibility studies on possible locations for new athletic fields.

The ability for the Town to maintain current athletic facilities, along with any possible new facilities, would be included within the study. This project may be appropriate to submit for a warrant article as opposed to a capital request.

The project has been moved out to a later year, while it waits for additional field improvements to be completed. DPW Parks and Forestry will need to be involved as they are responsible for maintenance of athletic fields.

				Capital Proje	ct Request					
Project Title:	Boat Launch on C	Charles River						Fiscal Year:	2	021
urpose:	Construction	Clas	ssification: La	nd	S	tatus:	Informational O	nly Details Incomp	lete	
epartment:	Park and Recreation					upports:	Culture and Leisu			
artners:	Conservation Depar	rtment/Town Manager			L	Jseful Life:	More than twelv	e (12) years		
				Parameters						ponse
. Are there any c	osts to bid, design, co	onstruct, purchase, insta	ll, implement, or of	therwise complete	e the project which a	are NOT include	d is this request?		No	
. Are there recon	nmendations or costs	identified by other dep	artments which are	e NOT factored int	o the request?				No	
		ting by any Town or Stat	•						Yes	
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?									No	
5. If this request is	s for Building Improve	ments, has the Departn	nent communicate	d with the Buildinរួ	g Maintenance (BM)	division, and d	oes BM support the	request?	No	
. If funded, will a	dditional permanent	staff be required?					Total New FTE's:		No	
. If funded, will t	he operating budget r	need to be increased to	cover operating ex	penses?					Yes	
3. If funded, will tl	his project lower the	requesting Department'	s operating costs?						No	
). If funded, will tl	his project require on	going assistance from v	endors at an additi	onal expense to th	e Town which is NO	T already budge	eted?		No	
l0. If the project i	s NOT funded, will cu	rrent Town revenue be	reduced?						No	
1. Is specialized t	training or annual lice	nsing required that the	Town will need to p	bay in order to use	the asset?				No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								Yes		
13. Is this a request in response to a Court, Federal, or State order?									No	
4. Is this a reque	st in response to a do	cumented public health	or safety condition	ו?					No	
.5. Is this a reque	st to improve or make	e repairs to extend the ι	useful life of a build	ing?					No	
.6. Is this a reque	st to purchase appara	itus/equipment that is ii	ntended to be pern	nanently installed	at the location of its	use?			No	
7. Is this a reque	st to repair or otherw	ise improve public prop	erty which is NOT a	a building or infras	tructure?				Yes	
8. Will any other	department be requi	red to provide assistance	e in order to comp	lete the project?					Yes	
9. If funded, will	this project increase	the operating expense f	or any other depar	tment?					No	
Project Cost:	\$0	How was the Project Co	ost Determined:		n-House Estimate				-	
Budget Impact:	Negligible impact o	n the annual operating (expenses less than	\$5,000						
	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	025
lanning/Feasibili	ty	\$0								
Design/Engineerir	ng	\$0								
and/ROW Acquis	sition	\$0								
ite Preparation		\$0								
construction		\$0								
onstruction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures	s, and Equipment	\$0								
echnology Hardv	ware/Software	\$0								
Other Expenses		\$0								
TOTAL		\$0	\$0	\$0	\$0		60 \$	0	\$0	

	Capital Project Request		
Boat Launch on Charles River		Fiscal Year:	2021
	Project Description and Considerations		

The Town of Needham is adjacent to a major state resource - the Charles River. It creates about 2/3rds of the Town's border, with the City of Newton, the City of Boston, the Town of Dedham, and the Town of Dover, our neighbors on the other side of the river.

CPC funds of \$30,000 have been awarded to design an improved boat launch into the Charles Rilver on Town-owned property on South Street, near the intersection of Dedham Avenue, but we have not started the formal design process as this is written. One of the on-call engineer firms will be chosen to work with Park and Recreation/Conservation departments on this project.

There is an existing unimproved launch for canoes and kayaks, with a circular driveway and parking for 10-12 vehicles. There is pedestrian access, only, to the river. The intention is to keep the launch in its natural setting, but create a more consistent access on a pervious path, and possibly creating the ability for vehicles to back up to the launch area with their boats. Depending on the final design, it is hoped that maintenance will be minimal.

At a minimum, permits would be required from the Needham Conservation Commission.

Project Title:

A project estimate can be provided once the designer is able to provide options and the Town chooses a scope of work. Until a design is in place, it is not know whether there would be any maintenance or staffing costs related to operation.

Though design is funded, the project has not moved forward as Conservation and Park & Recreation staff have needed to concentrate on other projects. The Conservation Department is partnering on this project.

				Capital Project	t Request					
Project Title:	Cricket Field Bu	ilding Renovation						Fiscal Year:		2020
urpose:	Design/Engineer	ing (Classification: Bu	ıilding	St	atus:	Amended Reque	est from the Prior	CIP	
epartment:	Park and Recreat					ipports:	Culture and Leisu	-		
Partners:	PPBC; Public Faci	lities-Construction; DP\	V		U	seful Life:	More than eighte	een (18) years		
				Parameters						<u>sponse</u>
. Are there any co	osts to bid, design,	construct, purchase, in	stall, implement, or o	therwise complete	the project which a	re NOT included	d is this request?		No	
. Are there recom	mendations or co	sts identified by other c	epartments which ar	e NOT factored into	o the request?				No	
. Does this projec	t require any perm	nitting by any Town or S	tate agency?						Yes	
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?									No	
5. If this request is	for Building Impro	vements, has the Depa	rtment communicate	d with the Building	Maintenance (BM)	division, and do	pes BM support the	request?	No	
6. If funded, will additional permanent staff be required?								No		
'. If funded, will th	e operating budge	t need to be increased	to cover operating ex	penses?					Yes	
3. If funded, will th	is project lower th	e requesting Departme	nt's operating costs?						No	
). If funded, will th	is project require	ongoing assistance from	n vendors at an additi	onal expense to the	e Town which is NO T	already budge ا	ted?		No	
l0. If the project is	NOT funded, will	current Town revenue	be reduced?						No	
1. Is specialized tr	aining or annual li	censing required that t	ne Town will need to	pay in order to use	the asset?				No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								Yes		
.3. Is this a reques	t in response to a	Court, Federal, or State	order?						No	
4. Is this a reques	t in response to a	documented public hea	Ith or safety condition	n?					No	
.5. Is this a reques	t to improve or ma	ake repairs to extend th	e useful life of a build	ling?					Yes	
.6. Is this a reques	t to purchase appa	aratus/equipment that	is intended to be perr	nanently installed a	t the location of its	use?			No	
7. Is this a reques	t to repair or othe	rwise improve public pi	operty which is NOT	a building or infrast	ructure?				No	
8. Will any other	department be red	uired to provide assist	ance in order to comp	lete the project?					Yes	
19. If funded, will t	his project increas	e the operating expens	e for any other depar	tment?					No	
Project Cost:	\$811,000	How was the Project	Cost Determined:	Н	ired Consultant				-	
Budget Impact:	Negligible impact	on the annual operating	ng expenses less than	\$5,000						
	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	2025
lanning/Feasibility	y	\$0								
Design/Engineering	5	\$162,000		\$162,000						
and/ROW Acquisi	tion	\$0								
ite Preparation		\$0								
Construction		\$649,000			\$649,000					
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures,	, and Equipment	\$0								
echnology Hardw	are/Software	\$0								
Other Expenses		\$0								
		\$811,000	\$0	\$162,000	\$649,000	\$		60	\$0	

Project Title: Cricket Field Building Renovation

Project Description and Considerations

Capital Project Request

Park and Recreation completed a feasibility study of the Cricket Field building with PPBC in March 2012. The study looked at (1) renovation of the building for current uses; (2) renovation of the building for year-round use; (3) construction of new building at same location; (4) construction of new building elsewhere on site. For the renovation options, code upgrades, including ADA, are included. Extensive work on the grounds is also required for accessibility. "Option 1 Modified" is used for the request, which is an update of the current layout for seasonal use only and a septic field. Option 1, without modifications, or a new modular building would be more than \$100,000 of additional costs. The design costs would also include a survey that is required for a building permit. The original estimate was created in 2012, with a 10% contingency. It is recommended to escalate the estimate by 5% annually, or review if a significant period of time passes. The numbers in this request have therefore been increased from the original estimate. The design/engineering costs were based on 20% of total project estimate.

The building is currently used for (a) Park and Recreation summer program; (b) Needham High Girls Soccer and Girls Lacrosse; (c) storage for Park and Recreation programs; and (d) storage for DPW Parks and Forestry. It is hoped that the building could be utilized for these purposes, and that public restrooms for those using the playgrounds or athletic fields would be available. The chosen option would also create an accessible building, and site work would add appropriate accessible parking. Approval of a new septic system as opposed to a sewer system would help reduce the cost of construction. The 1964 wood structure building is approximately 1,250 square feet. Without renovations, it will become more difficult to use it for the summer program, which would also be a loss of revenue of approximately \$30,000 as it isn't likely another site in Town would be available to accommodate the program. Donations have been made for other projects at the park, totaling about \$200,000. Those projects include the rebuilding of the athletic fields, addition of new playground equipment, and a bubbler and garden with park benches.

Any portion of the project related to outdoor recreation would be eligible for CPA funding, but indoor recreation is not eligible. Permits would be required from the Needham Health Department and the Planning Board. The costs do not include any unanticipated requirements of the permits. At some point, without renovation, the building will not be available for use by Park and Recreation for its summer program or by Needham High School Athletics. The loss of the summer program location would lead to a loss in revenue. Costs to use Cricket Field would increase for Needham High Athletics.

Currently, the building's restrooms are only used by Park and Recreation's summer program, as well as the Needham High teams. No other park user has access to the restrooms, so creating restrooms that are available to the park will increase the cost for cleaning by an outside firm.

Fiscal Year:

2020

				Capital Proj	ect Request					
Project Title:	Outdoor Baske	tball Courts						F	iscal Year:	2023
Purpose:	Construction	C	lassification: In	frastructure		Status:	Ne	ew Request		
Department:	Park and Recreat	ion				Supports:	Cu	lture and Leisure		
Partners:	DPW					Useful Life	e: M	ore than twenty-fiv	/e (25) years	
				Parameters						<u>Respons</u>
L. Are there any co	osts to bid, design,	construct, purchase, ins	tall, implement, or o	therwise complet	te the project wh	nich are NOT i	ncluded is th	is request?		No
. Are there recom	nmendations or cos	sts identified by other de	epartments which are	e NOT factored ir	nto the request?					No
 Does this project 	ct require any perm	nitting by any Town or St	tate agency?							No
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?										No
	• •	ovements, has the Depar	tment communicate	d with the Buildir	ng Maintenance	(BM) division	·		uest?	No
5. If funded, will a	dditional permane	nt staff be required?					То	tal New FTE's:		No
,	1 0 0	et need to be increased t								No
		e requesting Departmer								No
		ongoing assistance from		onal expense to t	he Town which :	s NOT alread	y budgeted?			No
		current Town revenue b								No
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?									No	
Is this a project	t for which an Initia	al Eligibility Project Appl	ication can be filed w	vith the Commun	ity Preservation	Committee (C	:PC)?			Yes
		Court, Federal, or State								No
		documented public heal								No
		ake repairs to extend the		-						No
		aratus/equipment that is				of its use?				Yes
		rwise improve public pro	· · ·	-						Yes
		quired to provide assista								Yes
		e the operating expense		tment?				r		No
Project Cost:	\$125,000	How was the Project			In-House Estima	te				
Budget Impact:		on the annual operating	g expenses less than	\$5,000						
	lget Elements	Project Budget	2019	2020	2021	20	22	2023	2024	2025
Planning/Feasibilit		\$0								
Design/Engineerin	-	\$25,000						\$25,000		
and/ROW Acquis	ition	\$0								
Site Preparation		\$0								
Construction		\$100,000						\$100,000		
Construction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures	· · ·	\$0								
Technology Hardw	vare/Software	\$0								
Other Expenses		\$0								
TOTAL		\$125,000	\$0	\$0		\$0	\$0	\$125,000		\$0

	Capital Project Re	quest	
Project Title:	Outdoor Basketball Courts	Fiscal Year:	2023
	Project Description and Co	nsiderations	
The Town has c	outdoor basketball courts located at parks, including Mills Field, Greene's Field, Riverside	Park, Perry Park; and half basketball courts at Cricket Field and Walker-	-Gordon Field.

Full or half courts are also located at Broadmeadow, Eliot, Hillside, Mitchell, Newman and High Rock, with a new court anticipated at the Williams School.

The Mills Field courts are ready for renovation, new backboards, and striping. The Perry Park courts can be painted, but cannot be rebuilt at the same location due to the former school's foundation. Riverside and Cricket would have minor repairs.

The Park and Recreation Commission is viewing the locations of basketball courts, to determine if a new set is needed in a new location. The design costs are to assist with the scope of work needed for repairs, or creation of a new court at a location where one doesn't currently exisit.

DPW will provide guidance on the project scope, likely Parks & Forestry, Highway and Engineering.

			С	api talpItalpProj u	eetmeentuestan					
Project Title:	Public Playgrour	nds		January	2018			Fiscal Year:		2019
Purpose:	Acquisition		Classification: E	quipment		Status:	Amended Reques	t from the Prior	CIP	
Department:	Park and Recreation	on				Supports:	Culture and Leisur	e		
Partners:	School Departmer	nt				Useful Life:	More than twenty	-five (25) years		
				Parameters					Re	sponse
1. Are there any co	osts to bid, design, o	construct, purchase, ii	nstall, implement, or o	otherwise complet	te the project which	are NOT include	d is this request?		No	
2. Are there recom	nmendations or cost	ts identified by other	departments which a	re NOT factored in	nto the request?				No	
3. Does this projec	ct require any permi	tting by any Town or	State agency?						No	
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?									No	
5. If this request is	s for Building Improv	ements, has the Dep	artment communicate	ed with the Buildin	ng Maintenance (BM) division, and d	oes BM support the r	equest?	No	
6. If funded, will a	dditional permanen	t staff be required?					Total New FTE's:		No	
7. If funded, will th	he operating budget	need to be increased	d to cover operating e	xpenses?					No	
8. If funded, will th	his project lower the	e requesting Departm	ent's operating costs?	2					No	
			m vendors at an addit	tional expense to t	he Town which is N	OT already budge	eted?		No	
10. If the project is	s NOT funded, will c	urrent Town revenue	be reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?								No		
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								Yes		
13. Is this a reques	st in response to a C	ourt, Federal, or Stat	e order?						No	
			alth or safety condition						No	
			he useful life of a buil						No	
			is intended to be per			s use?			Yes	
			property which is NOT						Yes	
		•	tance in order to com						Yes	
			se for any other depa						No	
Project Cost:	\$700,000	How was the Project			In-House Estimate					
			ing expenses less thar							
-	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
Planning/Feasibilit	•	\$0								
Design/Engineerin	-	\$0								
Land/ROW Acquis	sition	\$0								
Site Preparation		\$0	4000 000	* • • • • • • • •						
Construction		\$700,000	\$300,000	\$400,000						
Construction Mana	agement	\$0								
Equipment	and Fruit (\$0								
Furniture, Fixtures		\$0								
Technology Hardw	vare/Sottware	\$0								
Other Expenses		\$0								
TOTAL		\$700,000	\$300,000	\$400,000	\$0		io ś(_	\$0	\$0

\$0

		CapitalpItalprojeetneenbestan		
Project Title:	Public Playgrounds	January 2018	Fiscal Year:	2019
-	-	Project Description and Considerations		

The Town of Needham has 18 public playground locations: Broadmeadow (2), Eliot (2), Hillside (2), Mitchell (1), Newman (3), Claxton, Cricket, DeFazio, Greene's, Mills, Perry, Riverside, and Walker-Gordon.

Hillside and Mitchell have the oldest school-site playgrounds. The Williams School will have new playground equipment installed as part of the project. The Hillside equipment will be able to remain in use for visitors to the site, unless it needs to be removed for a temporary use of the school site.

The Mitchell Principal has requested that the playground equipment be replaced rather than wait until the school renovation project is done. Quality equipment, installed professionally, can be moved and re-used.

Broadmeadow's Grade 1-5 and Kindergarten playgrounds were installed in 2002 and will likely need upgrades in upcoming years. Eliot's two playgrounds were installed in 2004 and appear to be in excellent condition. Newman's Grade 1-5 and Kindergarten playgrounds were installed in 2012 and are in excellent condition. The Preschool playground received a poured-in-place surface in 2013. Its equipment was originally purchased in 1998 and moved to the Newman site in 2004. It is in good condition, but will need some refreshing. An improvement recommended for Broadmeadow and Eliot would be the installation of poured-in-place pathways. Though the current wood fiber surfacing is considered ADA compliant, the MA Architectural Board may be creating a new ruling that will require other options for pathways. The addition of poured-in-place pathways reduces the wear and tear on the wood fiber surfacing, requiring less material to be installed a few times a year.

For the non-school playgrounds, all sites are in very good to excellent condition. Greene's Field's equipment was installed new in 2013, with a major donation from residents of over \$180,000. At this time, through existing funding sources, adaptions to the swings are being planned, to add a new ADA swing, and move the toddler swings into an area near the toddler equipment. The Exchange Club has "adopted" DeFazio and Claxton, adding improvements over several years. Parent Talk has "adopted" Cricket, Perry and Mills, with new playgrounds installed between 2001-2007. The Parent Talk Board would like consideration for upgrades at Perry Park. Riverside received new equipment in 2007 as part of the nearby Charles River Landing project. Walker-Gordon was replaced in 2013 as part of the park reconstruction project. Cricket will have ADA improvements completed when the park building is renovated.

The school projects will require consultation with the School Department, insuring their educational goals are met with any new structures. The estimate was made in-house, based on recent projects completed in Needham and informal discussions with playground and surfacing companies.

		Capi taipha	ojeetnRequ	estan						
Project Title:	Public Playgrounds	Januar	January 2018							
	Supplemental Information									
F	PLAYGROUND	MANUFACTURER/REPRESENTATIVE	YEAR	SURFACING	CURRENT CONDITIONS/NOTES					
	Broadmeadow	Miracle Playgrounds - Creative Recreation (CT)	2002	Fiber	Fair/Good: Paid for through PPBC building project and donations					
Broad	meadow - Kindergarten	Miracle Playgrounds - Creative Recreation (CT)	2002	Fiber	Fair/Good: Paid for through PPBC building project and donations					

Claxton	Landscape Structures - O'Brien and Sons (MA)	1994	Fiber	Excellent: Initial Town Capital Novebmer 2007 - partial renovation
Cricket	Landscape Structures - O'Brien and Sons (MA)	2005	Fiber	Very Good: Donated by Parent Talk
DeFazio	Landscape Structures - O'Brien and Sons (MA)	1997 -	Fiber/Sand	Exellent/Good: Inital Town Capital Donated by Exchange Club
Eliot	Landscape Structures - O'Brien and Sons (MA)	2004	Fiber	Very Good: Paid for through PPBC building project and donations
Eliot - Kindergarten	Landscape Structures - O'Brien and Sons (MA)	2004	Fiber	Excellent: Paid for through PPBC building project and donations
Greene's	Landscape Structures - O'Brien and Sons (MA)	2013	Poured in place	Excellent: CPA Funds and private donations
High Rock	N/A			Removed wooden structure; nothing returning in near future for 6th grade
Hillside	Landscape Structures - O'Brien and Sons (MA)	1995	Fiber	Very Good: Donated by school parents including 2011 improvements.
Hillside - Kindergarten	Kompan - Kompan NE (RI)	2001	Fiber	Good: Donated by school parents, and payment mad to Town by RCN for damage to school site.
Mills	Landscape Structures - O'Brien and Sons (MA)	2007	Fiber	Excellent: Donated by Parent Talk
Mitchell	Playworld - Ultiplay (MA)	1998	Fiber	Fair/Good: Donated by school parents
Newman	Landscape Structures - O'Brien and Sons (MA)	2012	Synthetic grass	Excellent: Donated by school parents plus some Town capital funding
Newman - Kindergarten	Landscape Structures - O'Brien and Sons (MA)	2012	Synthetic grass	Excellent: Donated by school parents plus some Town capital funding
Newman - Preschool	Landscape Structures - O'Brien and Sons (MA)	1998- 2004	Poured in Place	Very Good: Donated by school parents 2013 p-i-p surface funded by CPA fund
Rebecca Perry	Landscape Structures - O'Brien and Sons (MA)	2001	Fiber	Excellent: Donated by Parent Talk
Riverside	Landscape Structures - O'Brien and Sons (MA)	2004 -	Fiber	Excellent: Donated by Hanover Co. as part of nearby construction
Rosemary Pool	N/A			Donated by Masons in 2016; removed 2017; to be replaced by spray
Walker-Gordon	Landscape Structures - O'Brien and Sons (MA)	2013	Fiber	Excellent: Town capital
Williams School	TBD	2019	TBD	Funded through construction project; likely be 2-3 locations with

Possible Projects (as of August 2017):

- Add ADA swings at Greene's and Cricket - need specialized ADA surface to reach swings

- Parent Talk would like to discuss upgrades at Perry Park

- Mitchell School would like to make improvements: prefer full replacement, but also consider removing some equiptment, adding some K equiptment

- Broadmeadow and Eliot should get poured-in-place pathways; decision on whether to replace Broadmeadow equipment

				Capital Project	ct Request					
Project Title:	Purchase of Ope	en Space						Fiscal Year:	20:	19
urpose:	Acquisition	C	lassification: Land	d	S	tatus:	Same Request from	n the Prior CIP		
epartment:	Park and Recreation					upports:	Culture and Leisure			
artners:	Conservation Com	mission; Board of Sele	ctmen		U	seful Life:	More than twenty-	five (25) years		
				Parameters					Resp	onse
		onstruct, purchase, ins	•			re NOT included	d is this request?		No	
. Are there recor	nmendations or cost	s identified by other de	epartments which are	NOT factored into	o the request?				No	
. Does this proje	ct require any permi	tting by any Town or St	tate agency?						No	
I. If this request is	s for Technology, has	s the Department com	municated with ITC, an	d does ITC suppo	rt the request?				No	
5. If this request is	s for Building Improv	ements, has the Depar	tment communicated	with the Building	Maintenance (BM)	division, and de	pes BM support the re	quest?	No	
. If funded, will a	dditional permanent	t staff be required?					Total New FTE's:		No	
. If funded, will t	he operating budget	need to be increased t	o cover operating expo	enses?					No	
3. If funded, will t	his project lower the	e requesting Departmer	nt's operating costs?						No	
). If funded, will t	his project require o	ngoing assistance from	vendors at an addition	nal expense to the	e Town which is NO	T already budge	eted?		No	
l0. If the project i	s NOT funded, will c	urrent Town revenue b	e reduced?						No	
1. Is specialized t	training or annual lic	ensing required that th	e Town will need to pa	ay in order to use	the asset?				No	
2. Is this a projec	ct for which an Initial	Eligibility Project Appl	ication can be filed wit	h the Community	Preservation Comr	nittee (CPC)?			Yes	
3. Is this a reque	st in response to a C	ourt, Federal, or State	order?						No	
4. Is this a reque	st in response to a d	ocumented public heal	th or safety condition?	2					No	
.5. Is this a reque	st to improve or mal	ke repairs to extend the	e useful life of a buildir	ıg?					No	
6. Is this a reque	st to purchase appar	atus/equipment that is	s intended to be perma	anently installed a	at the location of its	use?			No	
17. Is this a reque	st to repair or otherv	wise improve public pro	operty which is NOT a	building or infrast	tructure?				No	
.8. Will any other	department be requ	uired to provide assista	nce in order to comple	ete the project?					Yes	
9. If funded, will	this project increase	the operating expense	e for any other departn	nent?					No	
Project Cost:	\$1,000,000	How was the Project	Cost Determined:	Ir	n-House Estimate					
Budget Impact:	Negligible impact of	on the annual operating	g expenses less than \$	5,000						
Project Bud	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024	202	25
lanning/Feasibili [.]	ty	\$0								
esign/Engineerir	ng	\$0								
and/ROW Acquis	sition	\$1,000,000	\$1,000,000							
ite Preparation		\$0								
Construction		\$0								
onstruction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures	s, and Equipment	\$0								
echnology Hardv	ware/Software	\$0								
Other Expenses		\$0								
circi Enperioco				\$0	\$0	\$			\$0	-

Project Title:	Purchase of Open Space
----------------	------------------------

Capital Project Request

Fiscal Year:

Project Description and Considerations

Without much notice, opportunities to purchase private land to add to the open space inventory surface each year. In particular, some opportunities arise during discussions of the development of private land. This project request is to keep all aware of the possibility, in the near future, of a purchase moving forward. This request is a "place holder" in the event a parcel that benefits the community becomes available.

Unexpectedly, in FY 2010, the purchase of two parcels of land on Carol Road and Brewster Drive, as well as a parcel on Charles River Street, adjacent to Walker-Gordon Field were all funded through CPA funds. It is possible that some purchases would relate to easements, as opposed to full ownership of the land. The Open Space and Recreation Plan reflects the goal of making additional purchases, especially in areas of Town without current open space to retain open areas, or to create access to other parcels, including connections to the Charles River. The purchase of parcels adjacent to current open space is also a high priority. Some parcels may require improvements which would be submitted as separate capital improvement projects. Under the current CPA legislation, parcels purchased with CPA funds are eligible for improvement funds from CPA. The CPA indicates how the value of the property is determined.

A conservation restriction would need to be placed on the property, under CPA requirements.

The Town Manager and Town Counsel would need to be involved in discussions, deliberations and negotiations.

				Capital Proje	ect Request					
Project Title:	Rosemary Lake	Camp Property and T						Fiscal Year:	2	2019
urpose:	Construction	Cla	ssification: Bu	ilding	9	itatus:	Amended Reques	t from the Prior (CIP	
epartment:	Park and Recreat				5	Supports:	Culture and Leisur			
artners:	DPW, Conservation	on Department			ι	Jseful Life:	More than twenty	-five (25) years		
				Parameters					<u>Re</u>	sponse
. Are there any co	osts to bid, design,	construct, purchase, inst	all, implement, or of	therwise complet	e the project which a	are NOT included	d is this request?		No	
. Are there recom	nmendations or cos	sts identified by other de	partments which are	e NOT factored in	to the request?				No	
. Does this projec	ct require any perm	itting by any Town or Sta	ite agency?						Yes	
. If this request is	s for Technology, ha	as the Department comm	unicated with ITC, a	and does ITC supp	ort the request?				No	
. If this request is	s for Building Impro	vements, has the Depart	ment communicate	d with the Buildin	g Maintenance (BM)	division, and do	pes BM support the r	equest?	No	
. If funded, will a	dditional permaner	nt staff be required?					Total New FTE's:		No	
. If funded, will th	he operating budge	t need to be increased to	o cover operating ex	penses?					No	
. If funded, will th	his project lower th	e requesting Department	's operating costs?						No	
. If funded, will th	his project require o	ongoing assistance from	vendors at an additi	onal expense to t	he Town which is NC)T already budge	eted?		No	
0. If the project is	s NOT funded, will o	current Town revenue be	e reduced?						No	
1. Is specialized t	training or annual lie	censing required that the	Town will need to	pay in order to us	e the asset?				No	
2. Is this a projec	ct for which an Initia	al Eligibility Project Applic	ation can be filed w	ith the Communi	ty Preservation Com	mittee (CPC)?			Yes	
3. Is this a reques	st in response to a (Court, Federal, or State o	rder?						No	
4. Is this a reques	st in response to a d	documented public healt	h or safety conditior	n?					No	
5. Is this a reques	st to improve or ma	ke repairs to extend the	useful life of a build	ling?					No	
6. Is this a reques	st to purchase appa	ratus/equipment that is	intended to be pern	nanently installed	at the location of its	s use?			Yes	
7. Is this a reques	st to repair or other	wise improve public pro	perty which is NOT a	a building or infra	structure?				No	
8. Will any other	department be req	uired to provide assistan	ce in order to comp	lete the project?					Yes	
9. If funded, will t	this project increas	e the operating expense	for any other depar	tment?					No	
roject Cost:	\$250,000	How was the Project C	ost Determined:		In-House Estimate					
udget Impact:	Negligible impact	on the annual operating	expenses less than	\$5,000						
Project Bud	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024	:	2025
lanning/Feasibilit	ty	\$0								
esign/Engineerin	ng	\$0								
and/ROW Acquis	sition	\$0								
ite Preparation		\$50,000	\$50,000							
onstruction		\$200,000		\$200,000						
onstruction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures	s, and Equipment	\$0								
echnology Hardw	vare/Software	\$0								
		\$0								
Other Expenses										

Project Title: Rosemary Lake Camp Property and Trail

Project Description and Considerations

Capital Project Request

The former request has been updated. The three remaining buildings at the property are continually vandalized and need to be removed. The two smaller buildings were formerly latrines, and need to be decommissioned as part of demolition. The shelter building is not insulated and the electrical source was disconnected almost twenty years ago when a fourth building was lost in a fire. The Park and Recreation Commission would like to have the buildings demolished, for the safety of those using the site, and the neighbors. Youth who live in the area continue to build structures, including a small dock, that would also need to be removed for safety. In place of the shelter, an open air picnic shelter would be built, with picnic tables installed on the concrete base to minimize vandalism. This area would be available for use by trail walkers as well as any programs offered by Park and Recreation or other Needham organizations. Past vandalism has included use of flammable materials, a danger to nearby homes.

The Rosemary Trail project was initially developed within the Trails Master Plan and is the fourth of four major trail projects to be moved forward. The original scope and estimates was developed in 2008 by Beals+Thomas, and they updated the estimate in subsequent years. The scope has been altered to meet the current plans of the property. The entrance to the trail from the Rosemary parking lot is being repaired during the Rosemary Recreation Complex project. It is recommended that projects along the trail be combined into a group of projects for the Student Conservation Association, including rebuilding a bridge crossing the brook. The final project would involve improvements on the cart path to alleviate wet conditions, particularly when an emergency vehicle needs to access the property. The trail will not be ADA accessible.

Permits would be required from the Conservation Commission for the trail work, and demolition permits would be required, as well as for the installation of a pre-fab shelter for the picnic area.

On-going maintenance can primarily be done by volunteers, with minor assistance from DPW Parks and Forestry.

The estimates are based on recent Needham projects.

Fiscal Year:

2019

				Capital Proje	ct Request					
Project Title:	Walker Pond Impro	vements						Fiscal Year:	202	23
Purpose:	Construction	Classifi	ication: La	nd	St	atus:	Informational Or	nly Details Incomp	lete	
Department:	Park and Recreation					upports:	Culture and Leisu			
Partners:	Conservation Departm	ent			U	seful Life:	More than twelve	e (12) years		
				Parameters					Resp	onse
	osts to bid, design, const					re NOT included	l is this request?		Yes	
. Are there recor	nmendations or costs ide	entified by other depart	ments which are	e NOT factored into	o the request?				No	
	ct require any permitting								Yes	
4. If this request is	s for Technology, has the	Department communic	cated with ITC, a	ind does ITC suppo	ort the request?				No	
	s for Building Improveme		it communicate	d with the Building	Maintenance (BM)	division, and do			No	
	dditional permanent sta						Total New FTE's:		No	
	he operating budget nee			penses?					Yes	
	his project lower the req	•							No	
	his project require ongoi			onal expense to th	e Town which is NO	r already budge	ted?		Yes	
10. If the project i	is NOT funded, will curre	nt Town revenue be red	luced?						No	
	training or annual licensi								No	
 Is this a project 	ct for which an Initial Elig	ibility Project Applicatio	on can be filed w	ith the Community	Preservation Comr	nittee (CPC)?			Yes	
13. Is this a reque	st in response to a Court	, Federal, or State order	·?						No	
4. Is this a reque	st in response to a docur	nented public health or	safety condition	ו?					No	
15. Is this a reque	st to improve or make re	pairs to extend the use	ful life of a build	ing?					No	
L6. Is this a reque	st to purchase apparatus	/equipment that is inter	nded to be pern	nanently installed a	at the location of its	use?			No	
L7. Is this a reque	st to repair or otherwise	improve public propert	y which is NOT a	a building or infras	tructure?				Yes	
18. Will any other	department be required	l to provide assistance in	n order to comp	lete the project?					Yes	
19. If funded, will	this project increase the	operating expense for a	any other depar	tment?					No	
Project Cost:		w was the Project Cost			o Estimate Has Beer	n Determined				
Budget Impact:		perating expenses betw	een \$5,001 and	\$25,000						
		Project Budget	2019	2020	2021	2022	2023	2024	202	25
Planning/Feasibili	•	\$0								
Design/Engineerir	ng	\$0								
and/ROW Acquis	sition	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Man	nagement	\$0								
quipment		\$0								
	s, and Equipment	\$0								
Fechnology Hardv	ware/Software	\$0								
Other Expenses		\$0								
TOTAL		\$0	\$0	\$0	\$0	\$		0	\$0	

	Capital Project Request	
Walker Pond Improvements		Fiscal Year:
	Project Description and Considerations	

2023

In Fall 2017, the Conservation Department has begun a study of Walker Pond with the firm ESS. The pond is under the jurisdiction of the Park and Recreation Commission, and seven of the abutters are also considered owners for the portions adjacent to their properties. The Conservation Department has been working with the neighbors who would like to see the quality of the water improved.

In 1996, the Park and Recreation Department, with funding from a state grant and neighbor donations undertook a hydroaking project, removing about 2/3rds of the lily growth in the pond. The deep roots were eliminating areas for fish and wildlife to thrive. This project required permits from the Conservation Commission, DEP, and Army Corps of Engineers. For about five following years, an order of conditions allowed for chemical treatments to follow-up with the clean-out, and keep conditions from the project. The conditions have not returned to the 1990's, but new problems have arisen. The current ESS study will try to determine the problems and causes, and will make recommendations to improve the conditions. The neighbors will provide partial funding.

As the study has not been done as this is written, there is no estimate available. It is likely that the neighbors will seek to have funding earlier than this request.

It is anticipated that permitting may be lengthy, as it was for the past project.

Project Title:

				Capital Proj	ect Request					
Project Title: I	mprovements	to Memorial Park Bu	ilding					Fiscal Year:		
Purpose: C	Construction	C	assification: Bu	uilding		Status:	Partially Funde	d Request		
Department:	Memorial Park					Supports:	Culture and Leis	ure		
Partners: E	Board of Selectm	en, PPBC, DPW, Park an	d Recreation Depart	ment		Useful Life:	More than twer	nty-five (25) years		
				Parameters					Re	sponse
1. Are there any cost	ts to bid, design,	construct, purchase, ins	tall, implement, or o	therwise complet	te the project whic	h are NOT include	ed is this request?		No	
2. Are there recomm	endations or cos	sts identified by other de	partments which ar	e NOT factored ir	nto the request?				No	
 Does this project r 	require any perm	nitting by any Town or St	ate agency?						Yes	
4. If this request is fo	or Technology, ha	as the Department comr	nunicated with ITC, a	and does ITC supp	port the request?				No	
5. If this request is fo	or Building Impro	vements, has the Depar	tment communicate	ed with the Buildir	ng Maintenance (B	M) division, and a	loes BM support the	e request?	Yes	
5. If funded, will add	itional permaner	nt staff be required?					Total New FTE's	: 1	Yes	
7. If funded, will the	operating budge	t need to be increased t	o cover operating ex	kpenses?					Yes	
		e requesting Departmer							No	
9. If funded, will this	project require	ongoing assistance from	vendors at an additi	ional expense to t	the Town which is	NOT already budg	eted?		Yes	
	,	current Town revenue b							No	
	-	censing required that th							No	
2. Is this a project for	or which an Initia	al Eligibility Project Appl	cation can be filed w	vith the Commun	ity Preservation Co	mmittee (CPC)?			Yes	
		Court, Federal, or State							No	
		documented public heal							No	
		ake repairs to extend the		<u> </u>					Yes	
16. Is this a request t	to purchase appa	aratus/equipment that is	intended to be perr	manently installed	d at the location of	its use?			No	
		rwise improve public pro		-					No	
		quired to provide assista							No	
		e the operating expense		rtment?					Yes	
	5,900,000	How was the Project			Hired Consultant					
V		on the annual operating		\$5,000						
Project Budge	et Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	2025
Planning/Feasibility		\$0								
Design/Engineering		\$0								
and/ROW Acquisition	on	\$0								
ite Preparation		\$0								
Construction		\$5,500,000	\$5,500,000							
onstruction Manag	ement	\$100,000	\$100,000							
quipment		\$0								
urniture, Fixtures, a		\$200,000	\$200,000							
echnology Hardwar	re/Software	\$25,000	\$25,000							
Other Expenses		\$75,000	\$75,000							
TOTAL		\$5,900,000	\$5,900,000	\$0	\$0) !	\$0	\$0	\$0	

Capital Project Request

Project Title: Improvements to Memorial Park Building

\$0

Fiscal Year:

Project Description and Considerations

This is a general submission which will be followed with additional information from the Trustees of Memorial Park, project partners, and Town staff.

Winter Street Architects performed a feasibility study on the Memorial Park Building in 2016, and after design funds were approved at the May 2017 Annual Town Meeting, Winter Street continued to move forward with design documents, under the charge of the PPBC. The design is for a new two-story building which will be fully handicap accessible, and constructed in accordance with the building code. The building will enhance programs held at the park, and promote synergy among the other nearby Town facilities. The building will be a service point for High School athletics and other community activities, while keeping the focus on the site and its history.

The first floor will have spaces for Needham High School home teams to meet, and a separate room for visiting teams. These rooms can be used for other community activities, i.e. Citrus Sale or uniform pick-up. A concession room would be available for use. Restrooms for park users will be rebuilt, and a small number of restrooms will be inside for team use. Storage will be available for DPW Parks and Forestry, as well as groups using the fields at Memorial Park. The second floor will have meeting space for the Trustees and other community groups, as well as a room for larger meetings.

With an increase in use, it is anticipated that there will be additional operating costs for the building, including but not limited to HVAC, custodial care (to be determined if staff or outsourcing), building monitor, and energy.

A recent facility financing plan assumed that the project would be funded by a combination of General Fund debt (\$2 million), CPA funds, other one-time General Fund monies, and some limited outside resources, yet to be determined.

				Capital Proje	ct Request					
Project Title:	Big Belly Trash							Fiscal Year:	201	19
urpose:	Acquisition	C	Classification: Eq	uipment		Status:	New Request			
epartment:	Public Works - RT					Supports:	Utilities			
artners:	Town Manager's	Office, ITC				Useful Life:	More than eig	ht (8) years		
				Parameters					Respo	onse
. Are there any c	osts to bid, design,	construct, purchase, ins	stall, implement, or of	therwise complete	e the project whi	ch are NOT includ	ed is this request?		No	
. Are there recor	mmendations or cos	sts identified by other d	epartments which are	e NOT factored int	o the request?				No	
. Does this proje	ct require any perm	nitting by any Town or S	tate agency?						No	
. If this request i	s for Technology, ha	as the Department com	municated with ITC, a	ind does ITC suppo	ort the request?				Yes	
If this request i	s for Building Impro	vements, has the Depar	rtment communicated	d with the Buildinរូ	g Maintenance (E	BM) division, and	does BM support t	he request?	No	
. If funded, will a	additional permane	nt staff be required?					Total New FTE	' s: 0	No	
. If funded, will t	he operating budge	et need to be increased t	to cover operating ex	penses?					Yes	
. If funded, will t	his project lower th	e requesting Departme	nt's operating costs?						No	
. If funded, will t	his project require	ongoing assistance from	n vendors at an addition	onal expense to th	ie Town which is	NOT already bud	geted?		No	
0. If the project	is NOT funded, will	current Town revenue b	pe reduced?						No	
1. Is specialized	training or annual li	censing required that th	ne Town will need to p	bay in order to use	e the asset?				No	
2. Is this a proje	ct for which an Initia	al Eligibility Project Appl	lication can be filed w	ith the Communit	y Preservation Co	ommittee (CPC)?			No	
3. Is this a reque	st in response to a	Court, Federal, or State	order?						No	
4. Is this a reque	st in response to a	documented public heal	Ith or safety conditior	ו?					Yes	
		ake repairs to extend the							No	
		aratus/equipment that is				f its use?			Yes	
		rwise improve public pr			structure?				No	
8. Will any other	r department be rec	quired to provide assista	ance in order to comp	lete the project?					No	
9. If funded, will		e the operating expense	e for any other depar	tment?					No	
roject Cost:	\$100,000	How was the Project			ndustry Referenc	ces				
udget Impact:		on the annual operatin	g expenses less than	\$5,000						
-	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024	202	25
lanning/Feasibili	•	\$0								
esign/Engineerii	ng	\$0								
and/ROW Acqui	sition	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Mar	nagement	\$0								
quipment		\$100,000	\$100,000							
urniture, Fixture	s, and Equipment	\$0								
echnology Hard	ware/Software	\$0								
Other Expenses		\$0								
ther Expenses										

	Capital Project Request	
h Cans		Fiscal Year:
	Project Description and Considerations	

2019

The Town has been investigating long term strategies for handling public litter. Over the past year, the DPW has met with Big Belly Solar, Inc. to review a Town-wide deployment of their waste management receptacles. These receptacles have two compartments, one for recycling and one for trash, with solar powered compactors, and technology that indicates when the receptacles are full.

The Town is pursuing a pilot program to deploy these receptacles at two recreational facilities around Town. This deployment will include 12 Big Belly trash and recycling receptacles. Eleven receptacles will be solar powered compactors and one will be a solar powered non-compactable receptacle. The solar powered compactors will be deployed in areas of high volumes of trash and the non-compactable receptacle will be deployed in areas that are not prone to substantial trash generation. This deployment is being done in accordance with a study conducted by Big Belly.

The receptacles will be purchased by the Town and their effect on reducing the issues of overflowing trash containers and minimizing odors will be monitored. There is a potential in the out years to either purchase or lease additional Big Belly receptacles. The 12 trash and recycling receptacles being purchased under this pilot program can be incorporated in a lease program in the out years.

4. ITC is required because of the software included and the possibility of Wi-Fi capability.

7. Additional maintenance funds may be required, estimated at \$1,000 annually.

14. The Town receives numerous complaints of public litter.

Big Belly Trash

Project Title:

16. These trash and recycling receptacles will be permanently installed at each location.

				Capital Proje	ect Request				
Project Title:	RTS Efficiency Study							Fiscal Year:	2023
Purpose:	Feasibility Study	Clas	ssification:	nfrastructure		tatus:	Informational On	y Details Incomple	ete
Department:	Public Works - RTS					upports:	Utilities		
Partners:					ι	Iseful Life:	More than eightee	en (18) years	
				Parameters					Response
L. Are there any co	sts to bid, design, const	ruct, purchase, insta	ll, implement, or	otherwise complet	e the project which a	re NOT included	is this request?		No
. Are there recom	mendations or costs ide	ntified by other dep	artments which a	re NOT factored in	to the request?				No
	require any permitting								No
	for Technology, has the								No
5. If this request is	for Building Improveme	nts, has the Departm	nent communicat	ed with the Buildin	g Maintenance (BM)	division, and do	es BM support the r	equest?	No
. If funded, will ad	ditional permanent staf	f be required?					Total New FTE's:	0	No
. If funded, will the	e operating budget need	d to be increased to	cover operating e	expenses?					No
3. If funded, will th	is project lower the requ	uesting Department'	s operating costs	?					No
). If funded, will th	is project require ongoir	ng assistance from ve	endors at an addi	tional expense to tl	he Town which is NC	T already budge	ted?		No
0. If the project is	NOT funded, will currer	nt Town revenue be	reduced?						No
1. Is specialized tr	aining or annual licensir	ig required that the	Town will need to	pay in order to us	e the asset?				No
2. Is this a project	for which an Initial Eligi	bility Project Applica	ation can be filed	with the Communi	ty Preservation Com	mittee (CPC)?			No
3. Is this a request	t in response to a Court,	Federal, or State or	der?						No
4. Is this a request	t in response to a docun	nented public health	or safety condition	on?					No
.5. Is this a request	t to improve or make re	pairs to extend the u	useful life of a bui	lding?					No
.6. Is this a request	t to purchase apparatus,	equipment that is ir	ntended to be per	manently installed	at the location of its	use?			No
7. Is this a request	t to repair or otherwise	improve public prop	erty which is NO	a building or infra	structure?				No
.8. Will any other o	department be required	to provide assistanc	e in order to com	plete the project?					No
19. If funded, will t	his project increase the	operating expense for	or any other depa	artment?					No
Project Cost:	Но	w was the Project Co	ost Determined:						
Budget Impact:									
Project Bud	get Elements P	roject Budget	2019	2020	2021	2022	2023	2024	2025
lanning/Feasibility	/	\$0							
esign/Engineering	B	\$0							
and/ROW Acquisit	tion	\$0							
ite Preparation		\$0							
Construction		\$0							
onstruction Mana	gement	\$0							
quipment		\$0							
urniture, Fixtures,	and Equipment	\$0							
echnology Hardwa	are/Software	\$0							
Other Expenses		\$0							
		\$0							

Project Title: RTS Efficiency Study & Master Plan

Project Description and Considerations

Capital Project Request

2023

Fiscal Year:

The efficiency study will include:

- A review of the RTS operations as a whole (recycling, Municipal Solid Waste (MSW), composting, material handling, and the landfill), and as they relate to the site operations.

- A review of traffic patterns and safety matters.

- A financial evaluation of the operations in terms of operating and maintenance costs, disposal costs, transportation costs, and revenue. The financial evaluation will highlight the potential to increase revenues or reduce costs through efficiencies.

- A meeting with the supervisors and foremen of the operation, and a review of staffing and equipment levels.

- A review of MSW, recycling acceptance and handling practices, and volumes (quantities). This may be further segregated into residential and commercial wastes.

- A review of the existing site layout.

Findings from the review will be presented in a draft report format. Practices and efficiencies may be compared to other municipal operations when appropriate. Based on review of the overall operations and site layout, the department will make recommendations for potential efficiency improvements.

Building upon this efficiency study and the completed structural analysis, the department shall develop three conceptual master plan options that incorporate both efficiency improvements and address structural needs. An independent estimator shall then review all three options and calculate planning level costs. Lastly, the department will select the preferred option to pursue based on needs and costs.

				Capital Proje	ct Request					
Project Title:	RTS Employee Trailer							Fiscal Year:	202	23
urpose:	Acquisition	Classific	cation: B	uilding	S	tatus:	Informational	Only Details Incomp	lete	
epartment:	Public Works - RTS				S	upports:	Utilities			
artners:					ι	Jseful Life:	More than eig	hteen (18) years		
				Parameters					Respo	onse
Are there any cos	ts to bid, design, construct, pu	rchase, install, in	nplement, or o	otherwise complete	the project which a	are NOT include	ed is this request?			
. Are there recomn	nendations or costs identified l	by other departn	nents which a	re NOT factored inte	o the request?					
	require any permitting by any								Yes	
	or Technology, has the Departi								Yes	
If this request is f	or Building Improvements, has	the Department	t communicate	ed with the Building	; Maintenance (BM)	division, and	does BM support t	he request?	Yes	
If funded, will add	litional permanent staff be req	uired?					Total New FTE	' s: 0	No	
If funded, will the	operating budget need to be i	ncreased to cove	er operating e	xpenses?					No	
	project lower the requesting								No	
. If funded, will this	s project require ongoing assist	ance from vende	ors at an addit	ional expense to th	e Town which is NC	T already budg	geted?		No	
0. If the project is I	NOT funded, will current Town	revenue be redu	uced?						No	
1. Is specialized tra	ining or annual licensing requi	red that the Tow	n will need to	pay in order to use	the asset?				No	
2. Is this a project f	or which an Initial Eligibility Pr	oject Applicatior	n can be filed v	with the Community	y Preservation Com	mittee (CPC)?			No	
3. Is this a request	in response to a Court, Federa	l, or State order?	?						No	
4. Is this a request	in response to a documented	public health or s	safety conditio	on?					No	
5. Is this a request	to improve or make repairs to	extend the useful	ul life of a buil	ding?					No	
6. Is this a request	to purchase apparatus/equipm	nent that is inten	ided to be per	manently installed a	at the location of its	use?			No	
7. Is this a request	to repair or otherwise improve	e public property	which is NOT	a building or infras	tructure?				No	
8. Will any other d	epartment be required to prov	ide assistance in	order to com	plete the project?					Yes	
9. If funded, will th	is project increase the operation	ng expense for a	ny other depa	rtment?					No	
roject Cost:		ne Project Cost D								
	Negligible impact on the annua	al operating expe	enses less than	\$5,000						
Project Budg		U U	2019	2020	2021	2022	2023	2024	202	25
anning/Feasibility		\$0								
esign/Engineering		\$0								
and/ROW Acquisiti	on	\$0								
te Preparation		\$0								
onstruction		\$0								
onstruction Manag	gement	\$0								
luipment		\$0								
urniture, Fixtures, a		\$0								
echnology Hardwa	re/Software	\$0								
ther Expenses		\$0								
OTAL		\$0	\$0	\$0	\$0		\$0	\$0	\$0	

Capital Project Request		
ject Title: RTS Employee Trailer	Fiscal Year:	2023
Project Description and Considerations		
is informational request is for a new employee trailer at the RTS. The current employee lunch/break room is a donated, second-hand tr strooms in this trailer are not ADA compliant and there are no shower facilities or washing machines on site for staff working in an extre		e facility. The
the future, these quarters will need to be replaced in order to provide adequate working conditions for RTS staff. The new employee tr cilities as well as laundry.	ailer shall be ADA accessible and featu	ure shower
ne plumbing for this new employee trailer poses a significant cost in terms of reconfiguring the sewer at the RTS.		
This project will have to go to the Planning Board for Site Plan Review and will be subject to Conservation Commission permitting requi The technology in the current employee trailer includes a cable television. The RTS will communicate with ITC in terms of technology no This request is for a new employee trailer and the RTS will communicate with the Building Maintenance division to discuss future clean 8. Other departments that may be required to provide assistance in order to complete this project include Engineering, Building Mainten	eeded in the new employee trailer. ing service requirements.	

				Capital Pro	ject Request					
Project Title:	RTS Horizontal	Grinder (Tracked)						Fiscal Year:	202	20
Purpose:	Acquisition	C	lassification:	Equipment		Status:	Information	al Only Details Incomp	olete	
Department:	Public Works - RT	S				Supports:	Utilities			
Partners:						Useful Life:	More than e	ight (8) years		
				Parameters Parameters					Respo	onse
. Are there any co	osts to bid, design, (construct, purchase, ins	stall, implement, or	otherwise comple	ete the project whic	h are NOT incluc	led is this request	?	No	
2. Are there recom	nmendations or cos	ts identified by other d	epartments which a	are NOT factored i	nto the request?				No	
. Does this projec	t require any perm	itting by any Town or S	tate agency?						No	
I. If this request is	for Technology, ha	s the Department com	municated with ITC	, and does ITC sup	port the request?				No	
5. If this request is	for Building Improv	vements, has the Depar	rtment communicat	ted with the Buildi	ing Maintenance (B	M) division, and	does BM support	the request?	No	
5. If funded, will a	dditional permaner	it staff be required?					Total New F	TE's: 0	No	
7. If funded, will th	ne operating budge	t need to be increased	to cover operating e	expenses?					Yes	
3. If funded, will th	his project lower the	e requesting Departme	nt's operating costs	;?					No	
9. If funded, will th	nis project require o	ongoing assistance from	n vendors at an add	itional expense to	the Town which is	NOT already bud	geted?		Yes	
10. If the project is	s NOT funded, will d	current Town revenue b	pe reduced?						No	
11. Is specialized t	raining or annual lic	censing required that th	ne Town will need to	o pay in order to u	ise the asset?				No	
 Is this a project 	t for which an Initia	I Eligibility Project Appl	ication can be filed	with the Commun	nity Preservation Co	mmittee (CPC)?			No	
L3. Is this a reques	st in response to a C	Court, Federal, or State	order?						No	
14. Is this a reques	st in response to a c	locumented public hea	lth or safety conditi	ion?					No	
		ke repairs to extend th							No	
		ratus/equipment that i		,		its use?			No	
		wise improve public pr		-					No	
		uired to provide assista			?				No	
19. If funded, will t	this project increas	e the operating expense		artment?					No	
Project Cost:	\$750,000	How was the Project			Industry Reference	es				
Budget Impact:		on the annual operatin	g expenses less tha	in \$5,000						
•	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024	202	25
Planning/Feasibilit		\$0								
Design/Engineerin	g	\$0								
and/ROW Acquis	ition	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Man	agement	\$0								
quipment		\$750,000		\$750 <i>,</i> 000)					
urniture, Fixtures	, and Equipment	\$0								
Fechnology Hardw	vare/Software	\$0								
Other Expenses		\$0								

Proiect Title:	RTS Horizontal Grinder	(Tracked)

Project Description and Considerations

Capital Project Request

Fiscal Year:

2020

To provide the staff with the necessary equipment to ensure seamless operations at the compost operation, a new tracked (not wheeled) horizontal grinder is necessary. The grinder will provide the staff the means to control the inflow of brush, limbs, and logs. This will provide for considerably more square footage by negating the need to store huge amounts of the aforementioned materials on site which take up lots of necessary space at the present time. Having a new grinder will allow these materials to be processed at least weekly, freeing up valuable space for the layout of more windrows. The new grinder will play a significant role in both the efficiency and increased productivity of operation.

The new grinder will also provide the necessary equipment in the event of a catastrophic wind or storm event. Should (or when) such an event occur in town, having a horizontal grinder on site that is sized to handle both the day to day operations of the compost area and provide the processing power to handle copious amounts of local construction demolition from a catastrophic storm is prudent planning and will provide the Town flexibility to deal with this debris in a timely fashion.

The grinder will assist in the more efficient layout of the RTS' composting site. Having the grinder on site will allow for better control of incoming brush, limbs, and logs and keep open and clear valuable square footage that can be used for the layout of additional compost windrows.

7. If funded, the operating budget will need to be increased to cover operating expenses as the costs to service the grinder are presently not in the budget.9. If funded, this project will require ongoing assistance from vendors at an additional expense to the Town which is not already budgeted.

				Capital Proje	ct Request					
Project Title:	RTS Property Im	provements						Fiscal Year:	-	019
Purpose:	Construction		ssification: Infr	astructure	St	atus:	Amended Reques	t from the Prior	CIP	
Department:	Public Works - RTS						Utilities			
Partners:	Public Facilities Co	nstruction			Us	eful Life:	More than eightee	en (18) years		
				Parameters						onse
 Are there any co 	osts to bid, design, c	onstruct, purchase, inst	all, implement, or ot	herwise complete	the project which ar	e NOT included is	s this request?		No	
2. Are there recom	mendations or cost	s identified by other de	partments which are	NOT factored int	o the request?				No	
 Does this project 	t require any permi	tting by any Town or Sta	ite agency?						Yes	
1. If this request is	for Technology, has	the Department comm	unicated with ITC, a	nd does ITC suppo	ort the request?				No	
5. If this request is	for Building Improv	ements, has the Depart	ment communicated	l with the Building	Maintenance (BM)	division, and doe	s BM support the r	equest?	Yes	
5. If funded, will ac	ditional permanent	staff be required?					Total New FTE's:	0	No	
⁷ . If funded, will th	e operating budget	need to be increased to	cover operating exp	enses?					No	
3. If funded, will th	is project lower the	requesting Department	's operating costs?						No	
9. If funded, will th	is project require o	ngoing assistance from v	endors at an additio	onal expense to th	e Town which is NOT	already budgete	d?		No	
LO. If the project is	NOT funded, will c	urrent Town revenue be	reduced?						No	
1. Is specialized tr	raining or annual lice	ensing required that the	Town will need to p	ay in order to use	the asset?				No	
2. Is this a project	t for which an Initial	Eligibility Project Applic	ation can be filed wi	th the Communit	y Preservation Comm	ittee (CPC)?			No	
.3. Is this a reques	t in response to a C	ourt, Federal, or State o	rder?						No	
.4. Is this a reques	t in response to a de	ocumented public healt	n or safety condition	?					No	
.5. Is this a reques	t to improve or mak	e repairs to extend the	useful life of a buildi	ng?					Yes	
16. Is this a reques	t to purchase appar	atus/equipment that is	intended to be perm	anently installed a	at the location of its u	use?			Yes	
L7. Is this a reques	t to repair or otherv	vise improve public pro	perty which is NOT a	building or infras	tructure?				No	
8. Will any other	department be requ	iired to provide assistan	ce in order to compl	ete the project?					Yes	
19. If funded, will t	his project increase	the operating expense	for any other depart	ment?					No	
Project Cost:	\$912,000	How was the Project C	ost Determined:	Ir	ndustry References				-	
Budget Impact:	Negligible impact of	on the annual operating	expenses less than \$	5,000						
Project Bud	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	20)25
lanning/Feasibilit	у	\$0								
Design/Engineering	g	\$130,000	\$130,000							
and/ROW Acquisi	tion	\$0								
ite Preparation		\$0								
Construction		\$542,000	\$515,000	\$27,000						
onstruction Mana	agement	\$0								
quipment		\$230,000			\$110,000	\$120,000				
urniture, Fixtures,	, and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$10,000			\$10,000					
			\$645,000	\$27,000	\$120,000	\$120,000	\$0		\$0	

Capital Project Request		
Project Title: RTS Property Improvements Fiscal Y	ear:	2019
Project Description and Considerations		
This article will be used to fund improvements to the Recycling & Transfer Station (RTS) facility to increase efficiency, comply with regulatory requirements, and imp	prove the facility	y function.
Due to a study conducted in 2016 on the condition of the Transfer Station building, the original priority for FY19 has been moved back and taking action to remedy i report has taken precedence.	tems identified	in the
FY19 Weston & Sampson conducted a Transfer Station Building Roof Evaluation in April 2016 on the 1998 Transfer Building Structure and outline the following recommendation observed conditions of the structure. Temporary emergency structural repairs were made to address immediate safety concerns in the building. - New Metal Roof and Purlins - Clean and Paint Steel Framing - Re-Support Fire Protection	ndations based	on the
The Weston & Sampson Transfer Station Building Evaluation conducted in November 2016 on the 1988 Transfer Building Structure identified the following structura addressed Misc. Repairs to the Pre-Engineered Metal Framing - Clean and Paint Steel Framing - Re-Support Fire Protection - Repair Roof Leaks - Fall Protection/Warning System at Tipping Pit - Replace Steel Approach at Tipping Pit - Repair Slab-On-Grade	Il concerns that	should be
Design/Engineering \$130,000 Construction \$515,000		
FY20 This is for the purchase and installation of two new chain link gates and a chain link fence with privacy slats in the same location as the current security fencing at the	e RTS.	
Construction \$27,000		
FY21 This is for the purchase and installation of 300 jersey barriers that will be used to create a barrier between the composting operation and the wetlands. This needs to Town to be compliant with the Negative Determination of Applicability from the Conservation Commission in 2014. The cost referenced is for the purchase of new jutransportation. It is possible that the Town may be able to procure used jersey barriers at little or no cost but that will require the Town pay the cost of transportation \$10,000.	ersey barriers a	nd
Equipment \$110,000 Other Expenses \$10,000		

RTS Property Improvements

Supplemental Information

Capital Project Request

Fiscal Year:

2019

FY22

Project Title:

This is for the purchase and installation of two 18' x 10' panels to extend the existing scale which is 40 feet and insufficient to take the accurate weight of the Town's 100 yard open top containers and contractor's larger vehicles. Right now, the Town uses approximate values for these materials but the extended scale will accurately determine the weights of the materials being shipped out of or dropped off at the RTS. Additionally, the current scale is 10 years old as of 2017 and it requires annual maintenance due to excessive wear.

Equipment \$120,000

Future Projects

The Recycling and Transfer Station has grown organically over the years and currently includes seven separate buildings:

1. Transfer station building with customer reception area has been abandoned and is currently being used as storage due to lack of ADA compliance, insufficient barrier to the transfer station, deteriorated bathroom facility, and areas with mold.

- 2. A new office trailer that is temporary in nature has been installed in front of the transfer station building. This is a temporary solution.
- 3. 3-Bay garage used for surplus paint and equipment storage and Re-use-it area
- 4. Employee break trailer with storage and restroom are not ADA compliant
- 5. REX building garage with Superintendent Office and restroom are not ADA compliant. The garage is not properly insulated or heated.
- 6. Surplus paint reuse shed and hazardous waste locker
- 7. 12 foot storage container

Some of the limitations of the current facility include:

- Superintendent's office is isolated from the day-to-day operations and staff activity, making supervision and oversight challenging
- No shower facilities on site for staff working in extremely dirty environment
- Limited secure storage
- Employee lunch/break room is in a donated second-hand trailer located in isolated area of facility

Looking to the future, in order to improve efficiency and oversight of operations, provide adequate working conditions, and provide secure storage, new quarters at the RTS are desperately needed. The new area would combine the functions of five separate storage buildings into one facility attached to the existing transfer station building. The new facility would include: customer service area, staff office, superintendent office, employee lunch/break room, meeting room, restroom, shower facilities, and secure storage area all in a single facility. The new facility would most likely be a three-story addition to the existing transfer station building consisting of secure storage and shower/locker room on the ground level, customer reception and office area on the first floor, and meeting room and employee break room on the second floor. A May 2014 Annual Town Meeting Warrant approved funding for a temporary office trailer to provide adequate customer service, office, and restroom facilities and to bring the superintendent's office into the main operations area. This trailer is intended to be temporary and is situated so as not to interfere with potential transfer station expansion.

3. This project may have to go to the Planning Board for Site Plan Review and may be subject to Conservation Commission permitting requirements.

5. This project involves building improvements to the Transfer Station Building and Roof. The RTS has communicated with Building Maintenance and this division supports the request.

15. This is a request to improve or make repairs to extend the useful life of the Transfer Station Building and Roof.

16. The scale is a below ground device and will be permanently installed at the RTS.

18. The Conservation Department will be required to provide assistance in order to complete the project.

			Capital Projec	t Request					
Project Title: RT	S Stormwater Plan						Fiscal Year:	2020	0
Purpose: Co	nstruction	Classification:	Infrastructure	Sta	atus:	Amended Request	t from the Prior (CIP	
Department: Pu	blic Works - RTS			Su	pports:	Utilities			
Partners:				Us	eful Life:	More than eightee	en (18) years		
			Parameters					Respon	nse
L. Are there any costs	to bid, design, construct, purchase,	, install, implement, o	r otherwise complete t	the project which ar	e NOT included i	is this request?		No	
. Are there recomme	ndations or costs identified by othe	er departments which	are NOT factored into	the request?				No	
	quire any permitting by any Town o							Yes	
I. If this request is for	Technology, has the Department c	ommunicated with IT	C, and does ITC suppor	rt the request?				No	
6. If this request is for	Building Improvements, has the De	partment communica	ted with the Building	Maintenance (BM)	division, and doe	es BM support the re	equest?	No	
5. If funded, will additi	onal permanent staff be required?					Total New FTE's:	0	No	
. If funded, will the o	perating budget need to be increas	ed to cover operating	expenses?					No	
8. If funded, will this p	roject lower the requesting Depart	ment's operating cost	s?					No	
). If funded, will this p	roject require ongoing assistance fi	rom vendors at an ado	litional expense to the	Town which is NOT	already budget	ed?		No	
0. If the project is NO	T funded, will current Town reven	ue be reduced?						No	
1. Is specialized traini	ng or annual licensing required that	t the Town will need t	to pay in order to use t	the asset?				No	
2. Is this a project for	which an Initial Eligibility Project A	pplication can be filed	d with the Community	Preservation Comm	ittee (CPC)?			No	
3. Is this a request in	response to a Court, Federal, or Sta	ate order?						No	
4. Is this a request in	response to a documented public l	nealth or safety condit	ion?					No	
5. Is this a request to	improve or make repairs to extend	l the useful life of a bu	uilding?					No	
6. Is this a request to	purchase apparatus/equipment th	at is intended to be pe	ermanently installed at	t the location of its ι	ıse?			No	
7. Is this a request to	repair or otherwise improve public	c property which is NC)T a building or infrast	ructure?				No	
.8. Will any other dep	artment be required to provide ass	istance in order to co	mplete the project?					No	
9. If funded, will this	project increase the operating expe	ense for any other dep	partment?					No	
Project Cost: \$5	25,000 How was the Proj	ect Cost Determined:	Hi	red Consultant					
udget Impact: Ne	gligible impact on the annual opera	ating expenses less that	an \$5,000						
Project Budget	Elements Project Budget	2019	2020	2021	2022	2023	2024	2025	5
lanning/Feasibility	\$								
Design/Engineering	\$	0							
and/ROW Acquisition	\$	0							
ite Preparation	\$	0							
Construction	\$525,00	0	\$250,000	\$275,000					
Construction Manager									
quipment	\$								
urniture, Fixtures, and	d Equipment \$	0							
Fechnology Hardware,									
Other Expenses	\$	0							
	\$525,00	0 \$0	\$250,000	\$275,000	\$0	\$0		\$0	

	Capital Project Req	uest	
Project Title:	RTS Stormwater Plan	Fiscal Year:	2020
	Project Description and Con	siderations	
place as a result o	Transfer Station (RTS) composting operation is presently under a July 2014 Conservation adverse impacts to the wetlands from the compost operations. The NDA calls for the is entering a perennial stream that feeds the wetlands abutting the composting opera	mitigation of potential stormwater issues at the site. At the present til	•
construction phas	received funding for the design phase of this project. At the time of the FY19 Capital parts of this project has been pushed to FY20 when budgetary numbers are available. Prelia 5. This project has now been broken down into two years due to scope and cost. The To	minary estimates, working with the Town's consultant, Fuss & O'Neill,	are above
FY20 Area 1 – The cons Construction \$17(ruction of a sediment removal structure at the compost area , 000		
Area 3 – A new de Construction \$80,	tention basin at the base of the landfill that will control stormwater runoff from the ma 000	aterials processing area and the road behind the salt shed	
<u>FY21</u> Area 2 – The storr Construction \$27 !	nwater management collection system for the proposed paving of the road behind the ,000	salt shed	
<u>Future Projects</u> Area 4 – The re-gr	ading of the materials processing area; this re-grading will require all stormwater runof	ff to be shifted away from the wetlands	
3. This project will	have to go to the Planning Board for Site Plan Review and will be subject to Conservati	ion Commission permitting requirements.	

				Capital Proje	ct Request				
Project Title:	Drain System Im	provements - Wate	r Quality (EPA)					Fiscal Year:	2019
Purpose:	Construction	C	lassification: Inf	rastructure	S	tatus:	Amended Request	from the Prior CI	Р
Department:	Public Works - Dra	ins			S	upports:	Utilities		
Partners:					U	Jseful Life:	More than twenty-	five (25) years	
				Parameters					Response
1. Are there any co	sts to bid, design, c	onstruct, purchase, ins	tall, implement, or o	therwise complete	the project which a	are NOT included is	s this request?		No
2. Are there recom	mendations or cost	s identified by other de	epartments which are	e NOT factored inte	o the request?				No
3. Does this project	require any permi	tting by any Town or Si	tate agency?						Yes
4. If this request is	for Technology, has	s the Department com	municated with ITC, a	and does ITC suppo	ort the request?				No
5. If this request is	for Building Improv	ements, has the Depar	tment communicate	d with the Building	Maintenance (BM)	division, and doe	s BM support the re	quest?	No
5. If funded, will ad	ditional permanent	t staff be required?					Total New FTE's:	0	No
7. If funded, will th	e operating budget	need to be increased t	to cover operating ex	penses?					No
3. If funded, will th	is project lower the	requesting Department	nt's operating costs?						No
9. If funded, will th	is project require o	ngoing assistance from	vendors at an additi	onal expense to th	e Town which is NO	T already budgete	d?		No
10. If the project is	NOT funded, will c	urrent Town revenue b	e reduced?						No
1. Is specialized tr	aining or annual lic	ensing required that th	e Town will need to j	pay in order to use	the asset?				No
2. Is this a project	for which an Initial	Eligibility Project Appl	ication can be filed w	ith the Community	y Preservation Com	mittee (CPC)?			Yes
13. Is this a request	in response to a C	ourt, Federal, or State	order?						No
4. Is this a request	in response to a d	ocumented public heal	th or safety condition	n?					No
L5. Is this a request	to improve or mal	ke repairs to extend the	e useful life of a build	ing?					No
L6. Is this a request	to purchase appar	atus/equipment that is	s intended to be pern	nanently installed a	at the location of its	use?			No
17. Is this a request	to repair or other	wise improve public pro	operty which is NOT a	a building or infras	tructure?				No
18. Will any other o	lepartment be requ	ired to provide assista	nce in order to comp	lete the project?					No
19. If funded, will t	his project increase	the operating expense	e for any other depar	tment?					No
Project Cost:	\$3,586,500	How was the Project	Cost Determined:	Н	lired Consultant				-
Budget Impact:	Negligible impact of	on the annual operatin	g expenses less than	\$5,000					
Project Bud	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility	/	\$25,000	\$25,000						
Design/Engineering	5	\$126,500			\$126,500				
and/ROW Acquisit	tion	\$0							
Site Preparation		\$0							
Construction		\$3,435,000	\$2,400,000			\$1,035,000			
Construction Mana	gement	\$0							
quipment		\$0							
urniture, Fixtures,	and Equipment	\$0							
Technology Hardw	are/Software	\$0							
Other Expenses		\$0							
		\$3,586,500	\$2,425,000	\$0	\$126,500	\$1,035,000	\$0	ـ	0

Capital Project Request		
Project Title: Drain System Improvements - Water Quality (EPA)	Fiscal Year:	2019
Project Description and Considerations		
The Town entered into a Memorandum of Understanding (MOU) with the Environmental Protection Agency (EPA) to commence a Town-w address the discharge of pollutants through stormwater into the Charles River Basin and other water bodies. Incorporated into this plan ar System to upgrade the quality of the water discharged into the Charles River in Needham. This request is to support action items identified	re improvements to the Stormwater	-
When the 2003 EPA National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit took effect, it incorporated services a number of projects proposed to manage stormwater quality effectively. The second permit to be issued by the EPA was submitted pending litigation. This request for funding increased from the previous year because during the design process, it was determined that the greater than what was originally estimated. This has increased the cubic yardage of sediment product that needs to be disposed.	in April 2016 and will take effect July	1, 2018,
Funding for the construction portion of the Rosemary Lake Sediment Removal was delayed a year from FY18 to FY19, per agreement amor Wildwood Drive pond was added to FY19 to address concerns over the condition of the pond and its capacity to handle Town stormwater.		Analysis of
FY19 Rosemary Lake Sediment Removal Construction \$2,400,000		
60 Wildwood Drive Pond Analysis Planning/Feasibility \$25,000		
FY20 No funding requested		
FY21 The Town Reservoir Sediment Removal Design/Engineering \$126,500		
FY22 The Town Reservoir Sediment Removal Construction \$1,035,000		
FY23 No funding requested		
<u>Future Projects</u> Action Items from Watershed Management Plan funded in FY15 Design and Construction		
3. Conservation Commission, State and Federal permitting may be required for dredging.		

				Capital Pro	ject Request					
	Sewer Main Ext	tensions in Zone I an						Fiscal Year:		2019
Purpose:	Construction		Classification: In	frastructure		Status:		Request from the Prior	CIP	
Department:	Public Works - Se	wer				Supports:	Utilities			
Partners:						Useful Life:	More tha	n twenty-five (25) years		
				Parameters					Re	<u>sponse</u>
. Are there any co	sts to bid, design,	construct, purchase, in	stall, implement, or o	therwise comple	te the project wh	ich are NOT incl	uded is this requ	est?	No	
		sts identified by other d		e NOT factored i	nto the request?				No	
		itting by any Town or S							Yes	
		as the Department com							No	
		vements, has the Depa	rtment communicate	ed with the Buildi	ng Maintenance (BM) division, a			No	
. If funded, will ad	ditional permaner	nt staff be required?					Total Nev	v FTE's: 0	No	
		t need to be increased							Yes	
8. If funded, will thi	is project lower th	e requesting Departme	ent's operating costs?						No	
9. If funded, will thi	is project require o	ongoing assistance fron	n vendors at an additi	ional expense to	the Town which is	s NOT already b	udgeted?		No	
1 7	,	current Town revenue l							No	
		censing required that th							No	
.2. Is this a project	for which an Initia	al Eligibility Project App	lication can be filed w	vith the Commur	ity Preservation C	Committee (CPC)?		No	
	•	Court, Federal, or State							No	
		documented public hea							Yes	
		ake repairs to extend th							No	
		ratus/equipment that i				of its use?			No	
		rwise improve public pr		-					No	
.8. Will any other c	lepartment be rec	uired to provide assista	ance in order to comp	plete the project					No	
		e the operating expens		rtment?					Yes	
,	\$690,000	How was the Project			Industry Referen	ces				
- ·		ual operating expenses	s between \$5,001 and	d \$25,000						
	get Elements	Project Budget	2019	2020	2021	2022	20	2024	2	2025
lanning/Feasibility		\$0								
Design/Engineering		\$40,000	\$40,000							
and/ROW Acquisit	tion	\$0								
ite Preparation		\$0								
onstruction		\$650,000	\$650,000							
onstruction Mana	gement	\$0								
quipment		\$0								
urniture, Fixtures,		\$0								
echnology Hardwa	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$690,000	\$690,000	\$0		0	\$0	\$0	\$0	

Capital Project Request		
Sewer Main Extensions in Zone I and II	Fiscal Year:	2019
Project Description and Considerations		

There are eight homes in Needham that need to be prioritized for sewer service connection because they are within Massachusetts Department of Environmental Protection's (MassDEP) Zone II areas. This project is to provide sewer services to homes that presently have no sewer service but are adjacent to the public water supply well field. These homes are being looked at as part of a future sewer main extension/service connections project.

The Zone I and Zone II aquifer protection area for the Charles River Well No. 1 encompasses an area that includes private septic systems. Zone I, as defined by MassDEP, includes land within the protective 400 ft. radius around an existing or potential public water supply well or well field. Zone II includes the area of an aquifer that, given the most severe pumping and recharge conditions that can be realistically anticipated, would potentially be affected by nearby septic systems. It is bounded by the groundwater divides which result from pumping the well and by the contact of the aquifer with less permeable materials such as till or bedrock. (Note: these private systems predate the Zone I and II requirements by MassDEP and Needham Zoning Bylaws, Section 3.4.6 (b)).

All three of Needham's wells are located in an area that is vulnerable to contamination from nearby septic systems. Extending the sewer main will enable access to homes within Zones I & II and reduce the risk of contamination.

The FY19 construction project proposed was designed in FY17 and includes the installation of a new sewage pumping station and extension of the sewer main in Winding River Road. With this new service, the Town will provide sewer service for 909 Charles River Street to a critical portion of Winding River Road.

This service will extend 712 ft. up Winding River Road. The new sewer main will pick up eight homes that are on septic, seven of which are on Winding River Road. These improvements may be subject to a betterment fee.

<u>FY19</u>

Project Title:

Engineering and Construction \$690,000

3. Conservation Commission permitting may be required for site work; Board of Health permitting for septic system abandonment.

7. Additional operating budget funds will be required after this project is constructed in order to operate the new main which include maintenance costs of the pumps, mechanicals seals, valves, wet cleanings, and other maintenance costs. The increased electrical and maintenance costs are not anticipated to exceed \$10,000 in 2017 dollars.

14. All of Needham's wells are located in an area that is vulnerable to contamination from nearby septic systems.

19. An increase in electrical costs will require additional budget funds from the Needham Electric Light and Gas Program. The increased electrical and maintenance costs are not anticipated to exceed \$10,000 in 2017 dollars.

				Capital Proje	ct Request					
Project Title:	Sewer Main Rep	placement						Fiscal Year:		2019
Purpose:	Construction	CI	assification: Ir	nfrastructure		atus:	Amended Reques	t from the Prior	CIP	
Department:	Public Works - Sev	wer				pports:	Utilities			
Partners:					Us	eful Life:	More than twenty	/-five (25) years		
				Parameters					Re	sponse
		construct, purchase, inst				e NOT included	is this request?		No	
. Are there recon	nmendations or cos	ts identified by other de	partments which a	re NOT factored int	o the request?				No	
		itting by any Town or St							Yes	
1. If this request is	for Technology, ha	s the Department comn	nunicated with ITC,	and does ITC suppo	ort the request?				No	
5. If this request is	for Building Improv	vements, has the Depart	ment communicate	ed with the Building	g Maintenance (BM)	division, and do	es BM support the I	equest?	No	
5. If funded, will a	dditional permanen	t staff be required?					Total New FTE's:	0	No	
7. If funded, will th	he operating budget	t need to be increased to	o cover operating e	xpenses?					No	
3. If funded, will th	his project lower the	e requesting Departmen	t's operating costs?	?					No	
). If funded, will th	his project require a	ongoing assistance from	vendors at an addit	tional expense to th	e Town which is NO	already budget	ed?		No	
LO. If the project i	s NOT funded, will c	current Town revenue b	e reduced?						No	
1. Is specialized t	raining or annual lic	censing required that the	e Town will need to	pay in order to use	the asset?				No	
2. Is this a projec	t for which an Initia	l Eligibility Project Appli	cation can be filed	with the Communit	y Preservation Comm	nittee (CPC)?			No	
.3. Is this a reques	st in response to a C	Court, Federal, or State o	order?						No	
4. Is this a reque	st in response to a d	locumented public healt	h or safety condition	on?					No	
5. Is this a reque	st to improve or ma	ke repairs to extend the	useful life of a buil	ding?					No	
6. Is this a reque	st to purchase appa	ratus/equipment that is	intended to be per	manently installed	at the location of its	use?			No	
L7. Is this a reques	st to repair or other	wise improve public pro	perty which is NOT	a building or infras	tructure?				No	
8. Will any other	department be req	uired to provide assistar	ice in order to com	plete the project?					No	
19. If funded, will	this project increase	e the operating expense	for any other depa	rtment?					No	
Project Cost:	\$11,280,000	How was the Project (Cost Determined:	li li	ndustry References				-	
Budget Impact:	Negligible impact	on the annual operating	expenses less thar	n \$5,000						
•	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibilit	ty	\$330,000	\$330,000							
esign/Engineerin		\$1,950,000		\$1,950,000						
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
Construction		\$9,000,000			\$9,000,000					
onstruction Man	agement	\$0								
quipment		\$0								
	s, and Equipment	\$0								
echnology Hardv	vare/Software	\$0								
Other Expenses		\$0								
TOTAL		\$11,280,000	\$330,000	\$1,950,000	\$9,000,000	\$() \$(\$0	

Capital Project R		
roject Title: Sewer Main Replacement		2019
Project Description and O	<u>Considerations</u>	
The Greendale Avenue/Route 128 sewer interceptor is in need of rehabilitation/replacement. The exi rehabilitation/replacement.	sting sewer line has been determined to be in the process of deteriorating and in	need o
This request is for replacing or relining 12,000 feet (2.25 miles) of 18 inch reinforced concrete gravity near Cheney Street towards Route 128, along Route 128 right of way, to Great Plain Avenue. This wor from numerous sewer lines.		
Costs have increased since the previous request because this is for the entire length of interceptor services was just Parcel 74. A feasibility study was added as part of the increased scope.	wer from Cheney Street to Great Plain Avenue as opposed to the original request	which
<u>FY19</u> Feasibility Study \$330,000		
FY20 Engineering \$1,950,000		
FY21 Construction Phase I \$9,000,000		
<u>FY22</u> No Funding Requested		
<u>FY23 Informational</u> Sewer replacement under Route 128 at Great Plain Avenue (horizontal directional drilling)		
3. MWRA permitting may be required for repair work.		

				Capital Proje	ct Request				
Project Title: Sev	wer Pump Stati	on Improvements/	Replacement					Fiscal Year:	2020
Purpose: Co	nstruction	Cla	ssification: Ir	nfrastructure		Status:	Amended Request	from the Prior CIP	
Department: Pul	blic Works - Sewe	r				Supports:	Utilities		
Partners:						Useful Life:	More than twenty-	ive (25) years	
				Parameters Parameters					Response
1. Are there any costs t	to bid, design, cor	nstruct, purchase, insta	all, implement, or	otherwise complete	the project which	are NOT included	d is this request?		No
2. Are there recommer	ndations or costs	identified by other de	partments which a	re NOT factored int	o the request?				No
3. Does this project rec	quire any permitti	ing by any Town or Sta	ite agency?						Yes
4. If this request is for ⁻	Technology, has t	he Department comm	unicated with ITC,	and does ITC suppo	ort the request?				No
5. If this request is for I	Building Improver	ments, has the Depart	ment communicat	ed with the Building	Maintenance (BN	 division, and details 	oes BM support the re	quest?	No
6. If funded, will addition	onal permanent s	taff be required?					Total New FTE's:	0	No
7. If funded, will the op	perating budget n	eed to be increased to	cover operating e	expenses?					No
8. If funded, will this pr	oject lower the r	equesting Department	's operating costs?	?					No
9. If funded, will this pr	oject require ong	going assistance from v	endors at an addi	tional expense to th	e Town which is N	OT already budge	eted?		No
10. If the project is NO	T funded, will cur	rent Town revenue be	reduced?						No
11. Is specialized traini	ng or annual licer	nsing required that the	Town will need to	pay in order to use	the asset?				No
12. Is this a project for	which an Initial E	ligibility Project Applic	ation can be filed	with the Communit	y Preservation Cor	nmittee (CPC)?			No
13. Is this a request in I	response to a Coι	urt, Federal, or State o	rder?						No
14. Is this a request in I	response to a doo	cumented public healt	n or safety condition	on?					No
15. Is this a request to	improve or make	repairs to extend the	useful life of a buil	lding?					No
16. Is this a request to	purchase apparat	tus/equipment that is	intended to be per	manently installed	at the location of i	ts use?			No
17. Is this a request to	repair or otherwi	se improve public pro	perty which is NOT	a building or infras	tructure?				No
18. Will any other depa	artment be requir	ed to provide assistan	ce in order to com	plete the project?					No
19. If funded, will this p	project increase t	he operating expense	for any other depa	artment?					No
Project Cost: \$5,	005,500	How was the Project C	ost Determined:	lı	n-House Estimate				-
Budget Impact: Ne	gligible impact or	the annual operating	expenses less than	n \$5,000					
Project Budget	Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility		\$0							
Design/Engineering		\$545,000		\$95,000		\$345,00	00	\$105,000	0
Land/ROW Acquisition		\$0							
Site Preparation		\$0							
Construction		\$4,460,500		\$535,000			\$3,370,500	\$555,000	C
Construction Managen	nent	\$0							
quipment		\$0							
urniture, Fixtures, and	d Equipment	\$0							
Technology Hardware/	'Software	\$0							
Other Expenses		\$0							
		\$5,005,500	\$0	\$630,000	\$0	\$345,00	0 \$3,370,500	\$660,000	

Capital Project Request		
Project Title: Sewer Pump Station Improvements/Replacement	Fiscal Year:	2020
Project Description and Considerations		
As part of the Wastewater System Master Plan, several of the wastewater pumping stations were evaluated to assess their physical condition and capacit flow projections. The Master Plan recommended that at least 7 of the 9 stations be upgraded. There are 4 stations left to be addressed, 1 of which was all remaining 3 are in the 5-year Capital Plan.		
Canister pump stations at Lake Drive and Cooks Bridge are either at or beyond their design life. Constant maintenance and emergency shutoffs occur mor amounts of personnel time and emergency funds to keep running.	e frequently and requir	e greater
FY19 No Funding Requested		
FY20 Lake Drive Design/Engineering \$95,000 Construction \$535,000		
FY21 No Funding Requested		
FY22 Cooks Bridge Design/Engineering \$345,000		
FY23 Cooks Bridge Construction \$3,370,500		
Future Projects Warren Street Design/Engineering \$105,000 Construction \$555,000		
3. Conservation Commission permitting may be required for site work.		

				Capital Project	t Request				
Project Title: Se	ewer Service	Connections						Fiscal Year:	2020
urpose: C	onstruction	CI	assification: In	frastructure	Sta	atus:	Informational Only	Details Incomplet	e
Pepartment: P	ublic Works - Se	ewer			Su	pports:	Utilities		
Partners:					Us	eful Life:	More than twenty-f	ive (25) years	
				Parameters					Response
L. Are there any costs	s to bid, design,	construct, purchase, ins	tall, implement, or o	therwise complete	the project which are	e NOT included is	this request?		No
		sts identified by other de		e NOT factored into	o the request?				No
		nitting by any Town or St							No
 If this request is for 	r Technology, h	as the Department comr	nunicated with ITC, a	and does ITC suppo	rt the request?				No
5. If this request is for	r Building Impro	ovements, has the Depar	tment communicate	d with the Building	Maintenance (BM)	division, and does	BM support the rec	quest?	No
5. If funded, will addit	tional permane	nt staff be required?				-	Total New FTE's:	0	No
7. If funded, will the o	operating budge	et need to be increased t	o cover operating ex	penses?					No
3. If funded, will this	project lower th	ne requesting Departmer	it's operating costs?						No
9. If funded, will this	project require	ongoing assistance from	vendors at an additi	onal expense to the	e Town which is NOT	already budgeted	d?		No
10. If the project is N	OT funded, will	current Town revenue b	e reduced?						No
 Is specialized trair 	ning or annual li	censing required that th	e Town will need to	pay in order to use	the asset?				No
2. Is this a project fo	or which an Initi	al Eligibility Project Appli	cation can be filed w	ith the Community	Preservation Comm	ittee (CPC)?			No
13. Is this a request ir	n response to a	Court, Federal, or State of	order?						No
l4. Is this a request ir	n response to a	documented public heal	th or safety condition	n?					No
		ake repairs to extend the							No
L6. Is this a request to	o purchase appa	aratus/equipment that is	intended to be pern	nanently installed a	it the location of its u	ise?			No
17. Is this a request to	o repair or othe	rwise improve public pro	perty which is NOT a	a building or infrast	ructure?				No
18. Will any other dep	partment be red	quired to provide assista	nce in order to comp	lete the project?					No
19. If funded, will this	s project increas	se the operating expense							No
	200,000	How was the Project			-House Estimate				
v ,		t on the annual operating	g expenses less than	\$5,000					
Project Budge	t Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility		\$0							
Design/Engineering		\$0							
and/ROW Acquisitio	n	\$0							
Site Preparation		\$0							
Construction		\$200,000		\$50,000	\$50,000	\$50,000	\$50,000		
construction Manage	ement	\$0							
quipment		\$0							
urniture, Fixtures, ar		\$0							
echnology Hardware	e/Software	\$0							
Other Expenses		\$0							
TOTAL		\$200,000	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$0	

Project Title: Sewer Service Connections
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Project Description and Considerations

Capital Project Request

Fiscal Year:

2020

There are 108 homes with access to sewer that are not connected to the Town Sewer System because they have chosen not to. The purpose of this request is to provide the lateral sewer line from the sewer main to the property line so that homeowners can connect should they choose to or should their septic system fail. The lateral sewer line is to be added prior (at least one year) to a road reconstruction/paving project. The cost for these service installations are typically not included in road construction estimates. In the case of Chapter 90 Projects, these are not considered as a reimbursement eligible expense. These expenses are included in local road reconstruction estimates. There is a corresponding request for water service connections.

This program has been put on hold so that the division could re-evaluate the intention of this article. The funding for this article was initially requested for the installation of sewer lateral lines in roads that were anticipated to be renovated in the near future, so should the homeowner choose to convert to Town sewer, the lateral would be available.

The reality has been that when homeowners have decided to go onto Town sewer it has been when their house has been sold, and with the high number of tear downs, the location of the sewer laterals the Town has installed are no longer beneficial for the new house's layout.

Past Projects

- 2013 Installed 14 new sewer laterals (408.5'of pipe)
- 2014 No appropriation was requested

2015 - Installed sewer laterals as part of the Great Plain Avenue sewer replacement

2016 - Installed sewer laterals as part of the Great Plain Avenue sewer replacement

				Capital Proj	ect Request					
Project Title:	Sewer System I	nflow & Infiltration Re	emoval					Fiscal Year:		2019
Purpose:	Construction	Cla	ssification: In	ofrastructure		Status:	Amended Reque	est from the Prior (CIP	
Department:	Public Works - Se	wer				Supports:	Utilities			
Partners:						Useful Life:	More than twen	ty-five (25) years		
				Parameters					Res	<u>sponse</u>
L. Are there any co	sts to bid, design,	construct, purchase, inst	all, implement, or o	otherwise complet	e the project which	are NOT include	d is this request?		No	
. Are there recom	mendations or cos	sts identified by other de	partments which a	re NOT factored ir	to the request?				No	
 Does this project 	t require any perm	itting by any Town or Sta	ite agency?						No	
I. If this request is	for Technology, ha	as the Department comm	unicated with ITC,	and does ITC supp	oort the request?				No	
5. If this request is	for Building Impro	vements, has the Depart	ment communicate	ed with the Buildir	ng Maintenance (BN	 division, and d 	oes BM support the	request?	No	
. If funded, will ad	lditional permaner	nt staff be required?					Total New FTE's	: 0	No	
'. If funded, will th	e operating budge	t need to be increased to	cover operating e	xpenses?					No	
3. If funded, will th	is project lower th	e requesting Department	's operating costs?)					No	
). If funded, will th	is project require o	ongoing assistance from v	endors at an addit	ional expense to t	he Town which is N	OT already budge	eted?		No	
LO. If the project is	NOT funded, will	current Town revenue be	reduced?						No	
1. Is specialized tr	aining or annual li	censing required that the	Town will need to	pay in order to us	e the asset?				No	
2. Is this a project	for which an Initia	al Eligibility Project Applic	ation can be filed v	with the Commun	ty Preservation Con	nmittee (CPC)?			No	
3. Is this a request	t in response to a (Court, Federal, or State o	rder?						No	
4. Is this a request	t in response to a d	documented public healt	n or safety conditio	on?					No	
.5. Is this a request	t to improve or ma	ake repairs to extend the	useful life of a buil	ding?					No	
.6. Is this a request	t to purchase appa	ratus/equipment that is	intended to be per	manently installed	l at the location of it	s use?			No	
7. Is this a request	t to repair or other	rwise improve public pro	perty which is NOT	a building or infra	structure?				No	
.8. Will any other o	department be req	uired to provide assistan	ce in order to com	plete the project?					No	
.9. If funded, will t	his project increas	e the operating expense	for any other depa	rtment?					No	
Project Cost:	\$1,805,000	How was the Project C	ost Determined:		Industry References	5			-	
Budget Impact:	Negligible impact	on the annual operating	expenses less than	n \$5,000						
	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	2025
lanning/Feasibility	ý	\$0								
Design/Engineering	B	\$205,000	\$205,000							
and/ROW Acquisi	tion	\$0								
ite Preparation		\$0								
Construction		\$1,600,000		\$1,600,000						
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures,	and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
other Expenses										

Capital Project Request ject Title: Sewer System Inflow & Infiltration Removal	Fiscal Year:	2019
Project Description and Considerations	Fiscal feat.	2019
2016, the Town completed a study that identified areas of inflow and infiltration removal in areas around town over the next ten years. This stu ade I/I harder to detect. The Town has been undertaking I/I projects using funding from developments. In future years, funding from private dev eeting.		
ne Town of Needham, along with numerous other communities, is under Administrative Orders from the Department of Environmental Protection Ind Inflow (I/I) in existing sewer systems.	on (DEP) to identify and remo	ve Infiltration
filtration is defined as groundwater or storm water runoff that enters the system through deteriorated pipe or manhole structures that need to	be repaired.	
flow is defined as clean, non-septic water, which is introduced to the system. This water is generally produced by residential sump pumps that or being presented separately from the infiltration removal program. Much of this work could address inflow to include extending or expanding the om household sump pumps. Needham's most significant problem is believed to be from these private sources. The program will initiate with an form and prepare the homeowners as to the nature of the problem. The cost impacts to the community, the legal implications, the likely solution ad the potential enforcement actions by the Town, the Massachusetts Water Resource Authority (MWRA), the DEP and the Environmental Prote form drain system. It also includes a door-to-door investigation of households to determine where violations are occurring. Typical violations inclu- ore clean-outs where non-sanitary flow is discharging directly to the sewer system as well as foundation drains, yard drains, roof leaders, and ot	e storm drain system to accept education and information can ons, the responsibilities of the ection Agency (EPA) will need interconnections between the lude, but are not limited to, so	pt groundwater ampaign to homeowner, to be e sewer and the
ost Benefits of Program: ailure to do any mitigation in any of the MWRA communities will cause the overall costs for all participating communities to increase. he failure of the Town of Needham to address its I/I while neighboring communities reduce theirs will increase the percentage of the cost to Ne Vhen Needham decreases its I/I the same or better than other participating communities its percentage of cost will stay the same or decrease. he Town must keep up with its I/I mitigation in order to avoid disproportionate increases in cost and to comply with MassDEP's administrative c		
19 is request is for the design of the removal of the remaining locations of identified infiltration in the system as indicated in the 2016 BETA report esign/Engineering \$205,000	t.	
20 nis request is for the removal of the remaining locations of identified infiltration in the system as indicated in the 2016 BETA report. Sonstruction \$1,600,000		
<u>'21 - FY23</u> The focus of this article has historically been on infiltration. Based on changes in the industry, the focus in the future will be on inflow. When the T flow, this information will be added to this article.	Town has developed its plan o	on how to tackle

				Capital Pro	ject Request				
Project Title:	Birds Hill Wate	r Tank Improvement						Fiscal Year:	2019
•	Design/Engineer	Ç	Classification: In	frastructure		Status:	Amended Requ	est from the Prior (CIP
Department:	Public Works - W	ater				Supports:	Utilities		
Partners:						Useful Life:	More than eigh	teen (18) years	
				Parameters					Response
		construct, purchase, in				ch are NOT inclu	ded is this request?		No
		sts identified by other o		re NOT factored	into the request?				No
		itting by any Town or S							No
		as the Department com							No
. If this request is f	for Building Impro	vements, has the Depa	rtment communicate	ed with the Build	ing Maintenance (I	3M) division, and	does BM support th	e request?	No
. If funded, will ad	ditional permaner	nt staff be required?					Total New FTE	s: 0	No
. If funded, will the	e operating budge	t need to be increased	to cover operating ex	xpenses?					No
		e requesting Departme							No
		ongoing assistance from		ional expense to	the Town which is	NOT already but	lgeted?		No
1 7	,	current Town revenue							No
		censing required that t							No
2. Is this a project	for which an Initia	al Eligibility Project App	lication can be filed v	with the Commu	nity Preservation C	ommittee (CPC)?			No
Is this a request	in response to a G	Court, Federal, or State	order?						No
	•	documented public hea							No
		ake repairs to extend th							No
		ratus/equipment that				f its use?			Yes
		rwise improve public p							No
.8. Will any other d	lepartment be rec	uired to provide assist	ance in order to comp	plete the project	?				No
		e the operating expens		rtment?	-			1	No
,	\$340,000	How was the Project			Industry Referen	ces			
		on the annual operation		1 \$5,000					
	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
lanning/Feasibility		\$0							
Design/Engineering		\$65,000	\$65,000						
and/ROW Acquisit	tion	\$0							
ite Preparation		\$0							
onstruction		\$275,000	\$275,000						
onstruction Mana	gement	\$0							
quipment		\$0							
urniture, Fixtures,		\$0							
echnology Hardwa	are/Software	\$0							
Other Expenses		\$0					\$0		
TOTAL		\$340,000	\$340,000	\$0) \$			\$0	\$0

Capit	tal Project Request	
Project Title: Birds Hill Water Tank Improvements	Fiscal Year:	2019
Project Des	cription and Considerations	
The purpose of the water tank located at Birds Hill is to maintain proper operating system through one central pipe at the bottom of the tank. This is also how the tank is drained. T foundation and it is 45 ft. in elevation. The intention of this request is to install a mixing levels inside the tank. This will assure improved water quality.	The movement of water is predominately at the bottom of the tank. This tank has a 100) ft. diameter
This funding request increased based on a revised quote that the department received.		
<u>FY19</u>		

FY19 Design/Engineering \$65,000 Construction \$275,000

16. The mixing valve will be permanently installed at the Birds Hill Water Tank.

			Capital Proje	ct Request				
Project Title: Fire	Flow Improvements						Fiscal Year:	2020
urpose: Con	struction	Classification:	Infrastructure	Sta	itus:	Informational Only	Details Incomple	te
epartment: Pub	lic Works - Water			Su	oports:	Utilities		
Partners:				Us	eful Life:	More than twenty-	five (25) years	
			Parameters Parameters					Response
. Are there any costs to	bid, design, construct, purcha	ase, install, implement,	, or otherwise complete	e the project which ar	e NOT included i	s this request?		No
. Are there recommen	dations or costs identified by o	ther departments whi	ch are NOT factored int	to the request?				No
. Does this project req	uire any permitting by any Tow	n or State agency?						No
. If this request is for T	echnology, has the Departmen	t communicated with	ITC, and does ITC suppo	ort the request?				No
. If this request is for B	uilding Improvements, has the	Department commun	icated with the Building	g Maintenance (BM) (division, and doe	s BM support the re	quest?	No
. If funded, will additio	nal permanent staff be require	ed?				Total New FTE's:	0	No
. If funded, will the ope	erating budget need to be incre	eased to cover operati	ng expenses?					No
8. If funded, will this pro	ject lower the requesting Dep	artment's operating co	osts?					No
9. If funded, will this pro	ject require ongoing assistanc	e from vendors at an a	additional expense to th	ne Town which is NOT	already budgete	ed?		No
10. If the project is NOT	funded, will current Town rev	enue be reduced?						No
1. Is specialized trainin	g or annual licensing required	that the Town will nee	d to pay in order to use	e the asset?				No
2. Is this a project for v	vhich an Initial Eligibility Projec	ct Application can be fi	led with the Communit	y Preservation Comm	ittee (CPC)?			No
3. Is this a request in re	esponse to a Court, Federal, or	State order?						No
4. Is this a request in re	esponse to a documented publ	lic health or safety con	dition?					Yes
.5. Is this a request to in	mprove or make repairs to exte	end the useful life of a	building?					No
.6. Is this a request to p	urchase apparatus/equipment	that is intended to be	permanently installed	at the location of its u	ise?			No
7. Is this a request to r	epair or otherwise improve pu	blic property which is	NOT a building or infras	structure?				No
8. Will any other depa	tment be required to provide	assistance in order to	complete the project?					No
19. If funded, will this p	roject increase the operating e	xpense for any other o	lepartment?					No
Project Cost: \$2,9	40,000 How was the P	roject Cost Determine	d: I	n-House Estimate				-
Budget Impact: Neg	ligible impact on the annual op	perating expenses less	than \$5,000					
Project Budget E	lements Project Budg	jet 2019	2020	2021	2022	2023	2024	2025
lanning/Feasibility		\$0						
esign/Engineering	\$540,	,000	\$540,000					
and/ROW Acquisition		\$0						
ite Preparation		\$0						
onstruction	\$2,400,	,000		\$2,400,000				
onstruction Managem	ent	\$0						
quipment		\$0						
urniture, Fixtures, and	Equipment	\$0						
echnology Hardware/S	oftware	\$0						
Other Expenses		\$0						
ΓΟΤΑL	\$2,940,0		0 \$540,000	\$2,400,000	\$0	\$0	\$	_

	Capital Project	t Request	
Project Title:	Fire Flow Improvements	Fiscal Year:	2020
	Project Description a	nd Considerations	
two areas, pote	vn received funding for a feasibility study which explored the issue of water pressunt ntially supplied by water booster stations. The design/engineering and construction In this study. The FY20 and FY21 estimates provided are based upon a water system	n requests have been pushed to FY20 and FY21 in order to allow for a detaile	ed analysis of the
<u>FY20</u> Design/Enginee	ring \$540,000		

FY21 Construction \$2,400,000

14. The water pressure in these areas has the potential to be a public health or safety concern, specifically for the Fire Department.

				Capital Project	Request				
Project Title:	Water Distribut	ion System Improven	nents					Fiscal Year:	2019
Purpose:	Construction	Cla	ssification: In	frastructure	Sta	atus:	Amended Request	from the Prior Cl	Р
Department:	Public Works - Wa	ter			Su		Utilities		
Partners:					Us	eful Life:	More than twenty-f	ive (25) years	
				Parameters					<u>Respons</u>
L. Are there any cos	ts to bid, design, o	onstruct, purchase, inst	all, implement, or o	otherwise complete t	he project which ar	e NOT included is	s this request?		No
2. Are there recomn	nendations or cost	ts identified by other de	partments which a	re NOT factored into	the request?				No
3. Does this project	require any permi	tting by any Town or Sta	ite agency?						Yes
4. If this request is fo	or Technology, ha	s the Department comm	unicated with ITC,	and does ITC support	the request?				No
5. If this request is fo	or Building Improv	ements, has the Depart	ment communicate	ed with the Building N	/laintenance (BM)	division, and does	s BM support the red	quest?	No
5. If funded, will add	litional permanen	t staff be required?					Total New FTE's:	0	No
. If funded, will the	operating budget	need to be increased to	cover operating e	xpenses?					No
3. If funded, will this	project lower the	e requesting Department	's operating costs?						No
9. If funded, will this	project require o	ngoing assistance from	vendors at an addit	ional expense to the	Town which is NOT	already budgete	d?		No
LO. If the project is I	IOT funded, will c	urrent Town revenue be	reduced?						No
1. Is specialized tra	ining or annual lic	ensing required that the	Town will need to	pay in order to use t	he asset?				No
.2. Is this a project f	or which an Initia	l Eligibility Project Applic	ation can be filed v	with the Community	Preservation Comm	ittee (CPC)?			No
.3. Is this a request	in response to a C	ourt, Federal, or State o	rder?						No
4. Is this a request	in response to a d	ocumented public healt	h or safety condition	on?					No
5. Is this a request	to improve or ma	ke repairs to extend the	useful life of a buil	ding?					No
6. Is this a request	to purchase appai	ratus/equipment that is	intended to be per	manently installed at	the location of its u	ise?			No
17. Is this a request	to repair or other	wise improve public pro	perty which is NOT	a building or infrastr	ucture?				No
18. Will any other de	epartment be requ	uired to provide assistan	ce in order to com	plete the project?					No
19. If funded, will th	is project increase	the operating expense	for any other depa	rtment?					No
	\$6,420,000	How was the Project C			House Estimate				-
Budget Impact:	Negligible impact	on the annual operating	expenses less than	\$5,000					
Project Budg	et Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
lanning/Feasibility		\$0							
Design/Engineering		\$140,000		\$40,000		\$100,000			
and/ROW Acquisiti	on	\$0							
ite Preparation		\$0							
Construction		\$6,280,000	\$830,000	\$4,600,000	\$390,000		\$460,000		
Construction Manag	ement	\$0							
quipment		\$0							
urniture, Fixtures, a	and Equipment	\$0							
Fechnology Hardwa	re/Software	\$0							
Other Expenses		\$0							
		\$6,420,000	\$830,000	\$4,640,000	\$390,000	\$100,000	\$460,000		60

Capital Project Request	 1	
ject Title: Water Distribution System Improvements Project Description and Considerations	Fiscal Year:	2019
riget Description and considerations		
ater System Rehabilitation nder the Water System Rehabilitation Program, the Town's water infrastructure is continually analyzed to assess functionality and p ater infrastructure requires ongoing attention and periodic replacement, and portions of the Town's water infrastructure are 75+ ye ligent rehabilitation program encompassing maintenance, repair, and replacement ensures a continual supply of water to the public placement of water pipes based upon pipe condition, water break history, and adequacy of water flow to fire hydrants.	ears old and approaching the end of their	useful life. A
FY18, all projects were pushed out a year on account of drainage work that had to be done on Greendale Avenue as the existing wa Iring construction of the drainage pipe underneath it. This could not have been foreseen because the lead joints were not identified	-	ible to breakag
<u>19</u> ennington Street /High Street to Concord Street (unlined) ountry Way/ Replace (1,200lf) of 8" main (unlined) onstruction \$830,000		
<u>20</u> Jorpe Road/Webster Street to End New 8" (330lf) ills Road/ Sachem Road to Davenport Avenue New 8" (500lf) ayo Avenue/Harris Avenue to Great Plain Avenue New 8" (1060lf) asign/Engineering \$40,000		
<u>21</u> orpe Road/ Mills Road/ Mayo Avenue (unlined) ills Road/ Sachem Road to Davenport Avenue New 8" (500lf) ayo Avenue /Harris Avenue to Great Plain Avenue New 8" (1060lf) (unlined) onstruction \$390,000		
22 ngsbury Street/ Oakland Avenue to Webster Street 8" (1,500lf) akland Avenue/ May Street to Highland Avenue 8" (1,100lf) esign/Engineering \$100,000		
<u>23</u> ngsbury Street/ Oakland Avenue to Webster Street 8" (1,500lf) akland Avenue / May Street to Highland Avenue 8" (1,100lf) (unlined) onstruction \$460,000		

Capital Project Request

Project Title: Water Distribution System Improvements

Supplemental Information

2019

Fiscal Year:

Water Main Replacement

This request is to replace a total of 11,500 linear feet of 14" water main. The existing water line dates from 1936-1939 and is cast iron with bitumastic or coal tar liner. The water quality in areas serviced by this line is a concern as the lining of these pipes breaks down over time causing discoloration in the water. In 2008, the Town began addressing areas served by this type of piping which at the time was approximately 19,000 linear feet. This work was completed over the subsequent years, extending from Charles River Street, to Pine Street, to Central Avenue, to Marked Tree Road and a section between Oak Street and Chestnut Street, to School Street.

The 14" water main was relined from the Charles River Water Treatment Facility to Grove Street. In 2010, the second phase of this project replaced the 14" water main with a new 16" water main extending from Grove Street to Central Avenue. In FY16, the Town replaced the water main in Oak Street from Maple Street to Chestnut Street and in Chestnut Street from Oak Street to School Street.

The current project will be replacing a 14" water main with a new 16" water main. This project includes replacing the pipe and reconstructing the road.

In FY18, funding was approved for Design/Engineering of the remaining 11,500 linear feet of water main to be replaced from the intersection of Pine Street to Marked Tree Road to Oak Street, and Maple Street.

FY20

Funding is proposed for the construction of the remaining water main. **Construction \$4,600,000**

The cost has increased from last year's submission because the Engineering Division has reviewed current construction and engineering costs and has determined that the original amount submitted is insufficient to complete the project as specified. The cost is \$400/linear foot of pipe with a 20% contingency in FY16 dollars. This cost was determined based on recent bids. The engineering is estimated to be 10% of the cost, which is lower than our normal engineering estimate percentage due to the straightforwardness of the project.

State Revolving Fund may be available for this project and the Public Works Department will submit an application.

Future Projects

Fenton Road/West Street to Pershing Road Greenough Street/Pine Grove Street to Avery Street Pine Grove Street, Hillside Avenue to exiting 8" Tower Avenue/Greendale Avenue to Lexington Avenue 800lf of 12" Rosemary Pond Water Main Replacement **Design/Engineering**

3. Conservation Commission permitting may be required for site work.

			Capital Proje	ct Request				
Project Title: Water Distri	bution Study						Fiscal Year:	2023
urpose: Design/Engin	eering Cl	assification: Inf	frastructure	S	tatus:	Informational Onl	y Details Incomple	te
Department: Public Works	- Water			S	upports:	Utilities		
artners:				U	seful Life:	More than eightee	en (18) years	
			Parameters					<u>Response</u>
. Are there any costs to bid, design	gn, construct, purchase, inst	all, implement, or o	therwise complete	the project which a	re NOT includ	ed is this request?		No
. Are there recommendations or	costs identified by other de	partments which are	e NOT factored into	o the request?				No
. Does this project require any po	ermitting by any Town or St	ate agency?						No
. If this request is for Technology	r, has the Department comn	nunicated with ITC, a	and does ITC suppo	ort the request?				No
. If this request is for Building Im	provements, has the Depart	ment communicate	d with the Building	Maintenance (BM)	division, and	does BM support the re	equest?	No
. If funded, will additional perma	nent staff be required?					Total New FTE's:	0	No
. If funded, will the operating bu	dget need to be increased to	o cover operating ex	penses?					No
 If funded, will this project lowe 	r the requesting Departmen	t's operating costs?						No
. If funded, will this project requi	re ongoing assistance from	vendors at an additi	onal expense to th	e Town which is NO	T already budg	geted?		No
.0. If the project is NOT funded, v	vill current Town revenue b	e reduced?						No
1. Is specialized training or annua	al licensing required that the	e Town will need to j	pay in order to use	the asset?				No
2. Is this a project for which an li	nitial Eligibility Project Appli	cation can be filed w	vith the Community	y Preservation Com	nittee (CPC)?			No
3. Is this a request in response to	a Court, Federal, or State o	order?						No
4. Is this a request in response to	a documented public healt	h or safety condition	n?					No
5. Is this a request to improve or	make repairs to extend the	useful life of a build	ling?					No
.6. Is this a request to purchase a	pparatus/equipment that is	intended to be pern	nanently installed a	at the location of its	use?			No
7. Is this a request to repair or of	therwise improve public pro	perty which is NOT a	a building or infras	tructure?				No
8. Will any other department be	required to provide assistar	nce in order to comp	lete the project?					No
9. If funded, will this project incr	ease the operating expense	for any other depar	tment?					No
Project Cost: \$222,000	How was the Project (n-House Estimate				
Budget Impact: Negligible imp	act on the annual operating	expenses less than	\$5,000				-	
Project Budget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
lanning/Feasibility	\$0							
Design/Engineering	\$222,000					\$222,000)	
and/ROW Acquisition	\$0							
ite Preparation	\$0							
construction	\$0							
onstruction Management	\$0							
quipment	\$0							
urniture, Fixtures, and Equipmer								
echnology Hardware/Software	\$0							
Other Expenses	\$0							
TOTAL	\$222,000	\$0	\$0	\$0		\$0 \$222,000) \$	0

Capital Project Request

Project Title: Water Distribution Study

Project Description and Considerations

Fiscal Year:

2023

This study will provide for an analysis of the Town's water infrastructure. This is partially driven by recommendations that were made in the current master plan that was conducted in 1998, which is coming to its completion of recommendations. Since the last time that the Town studied its water infrastructure, Needham Crossing, formerly the 128 Business Park, has significantly changed with more dense development and different industries and uses.

This request is for developing a new 20 year master plan that will include the following:

- Conduct a thorough asset inventory of the system and conduct a hydraulic analysis.

- Prioritize the rehabilitation and replacement of the asset information related to condition, performance, replacement values, failure modes, probability of failure, and criticality.

- Develop a new 20 year forecast for projected growth.

- Develop an annual estimate of needed reserves and an annual budget.

- Implement the asset management plan.

- Review and revise the current asset management plan.

The purpose of this water distribution study is to evaluate the existing water distribution system and determine the following:

- Identify any deficiencies that exist and determine what repairs should be made to ensure that the system can provide the required flow and pressure.

- Use growth projections from the Town's planning and zoning maps, estimate where and when future growth will occur.

- Use these growth projections, analyze the water system and determine the capacity of the water source, storage, and distribution system.

- Once the capacity is determined, decisions can be made as to when aspects of the water system should be further developed, upsized, or replaced.

				Capital Proj	ect Request						
Project Title:	Water Service (Connections							Fiscal Year:	202	23
Purpose:	Construction	C	lassification: In	nfrastructure		Status:	A	mended Request	from the Prior C	IP	
Department:	Public Works - W	ater				Supports	-	tilities			
Partners:						Useful Li	fe: M	ore than eighteer	n (18) years		
				Parameters						<u>Respo</u>	onse
L. Are there any co	sts to bid, design,	construct, purchase, ins	tall, implement, or o	otherwise comple	te the project whi	ich are NOT	included is t	nis request?		No	
. Are there recom	mendations or cos	ts identified by other de	epartments which a	re NOT factored in	nto the request?					No	
 Does this project 	t require any perm	itting by any Town or St	ate agency?							No	
I. If this request is	for Technology, ha	is the Department comr	nunicated with ITC,	and does ITC sup	port the request?					No	
5. If this request is	for Building Impro	vements, has the Depar	tment communicate	ed with the Buildii	ng Maintenance (I	BM) divisio	n, and does E	M support the re	quest?	No	
5. If funded, will ad	lditional permaner	nt staff be required?					Тс	otal New FTE's:	0	No	
'. If funded, will th	e operating budge	t need to be increased t	o cover operating e	xpenses?						No	
3. If funded, will th	is project lower th	e requesting Departmer	nt's operating costs?)						No	
		ongoing assistance from		tional expense to	the Town which is	NOT alrea	dy budgeted?			No	
LO. If the project is	NOT funded, will	current Town revenue b	e reduced?							No	
1. Is specialized tr	aining or annual li	censing required that th	e Town will need to	pay in order to us	se the asset?					No	
2. Is this a project	for which an Initia	al Eligibility Project Appli	ication can be filed v	with the Commun	ity Preservation C	ommittee (CPC)?			No	
.3. Is this a request	t in response to a (Court, Federal, or State	order?							No	
4. Is this a request	t in response to a d	locumented public heal	th or safety condition	on?						Yes	
5. Is this a request	t to improve or ma	ke repairs to extend the	e useful life of a buil	ding?						No	
6. Is this a request	t to purchase appa	ratus/equipment that is	intended to be per	manently installed	d at the location o	of its use?				No	
17. Is this a request	t to repair or other	wise improve public pro	operty which is NOT	a building or infra	astructure?					No	
18. Will any other o	department be req	uired to provide assista	nce in order to com	plete the project?						No	
L9. If funded, will t	his project increas	e the operating expense	e for any other depa	rtment?						No	
Project Cost:	\$200,000	How was the Project			Current Contract					-	
		on the annual operating	g expenses less thar	ו \$5 <i>,</i> 000							
	get Elements	Project Budget	2019	2020	2021	2)22	2023	2024	202	25
lanning/Feasibility		\$0									
Design/Engineering	8	\$0									
and/ROW Acquisi	tion	\$0									
ite Preparation		\$0									
Construction		\$200,000						\$200,000			
onstruction Mana	igement	\$0									
quipment		\$0									
urniture, Fixtures,	and Equipment	\$0									
Technology Hardw	are/Software	\$0									
Other Expenses		\$0									
		\$200,000	\$0	\$0	4	0	\$0	\$200,000		50	

Capital Project Request		
ject Title: Water Service Connections	Fiscal Year:	2023
Project Description and Considerations		
he primary purpose of this program is to remove old iron pipe water services that may contain lead from the water distribution system. Old water he year) to a road reconstruction/paving project. System wide, there are approximately 1,220 services that still need to be replaced in the system.		l prior (at least
ar Number of Services Replaced		
/07 – 126		
/08 – 170		
/09 – 174		
/10 – 17		
/11 – 145		
/12 – 102		
/13 – 200		
/14 – 152		
/15 – 110		
/16 – 12		
(17 – 62 (as of August)		
nere was a significant drop in the number of services that were replaced in CY16 because the vendor under contract for these services was relea bid the work.	sed from their contract and t	he Town had to
ere shall be no request for funding in FY19 through FY22 because in FY18, this program was funded \$1,000,000 for use over a 5-year period.		
23 – \$200,000 for the replacement of approximately 120 services based on the final year of the Town's current contract.		
. Old iron pipe water services in the water distribution system that may contain lead is a documented public health or safety condition.		

				Capital Proje	ect Request					
Project Title:	Water Supply D	evelopment						Fiscal Year:	201	19
urpose:	Construction	Cla	ssification: Infi	astructure		Status:	Amended R	equest from the Prior	CIP	
epartment:	Public Works - W	ater				Supports:	Utilities			
artners:						Useful Life:	More than t	wenty-five (25) years		
				Parameters					<u>Respo</u>	onse
. Are there any co	sts to bid, design,	construct, purchase, inst	all, implement, or ot	herwise complet	e the project which	are NOT includ	ed is this request	t?	No	
. Are there recom	mendations or cos	ts identified by other de	partments which are	NOT factored in	to the request?				No	
. Does this project	t require any perm	itting by any Town or Sta	te agency?						Yes	
I. If this request is	for Technology, ha	is the Department comm	unicated with ITC, a	nd does ITC supp	ort the request?				No	
. If this request is	for Building Impro	vements, has the Depart	ment communicated	l with the Buildin	ng Maintenance (BM) division, and	does BM suppor	t the request?	No	
. If funded, will ad	ditional permaner	nt staff be required?					Total New F	TE's: 0	No	
. If funded, will th	e operating budge	t need to be increased to	cover operating exp	enses?					Yes	
8. If funded, will th	is project lower th	e requesting Department	's operating costs?						No	
). If funded, will th	is project require o	ongoing assistance from v	vendors at an additio	onal expense to t	he Town which is N	DT already bud	geted?		No	
0. If the project is	NOT funded, will	current Town revenue be	reduced?						No	
1. Is specialized tr	aining or annual li	censing required that the	Town will need to p	ay in order to us	e the asset?				No	
Is this a project	for which an Initia	I Eligibility Project Applic	ation can be filed wi	th the Communi	ty Preservation Com	mittee (CPC)?			No	
3. Is this a request	t in response to a (Court, Federal, or State o	rder?						No	
4. Is this a request	t in response to a o	locumented public healt	n or safety condition	?					No	
5. Is this a request	t to improve or ma	ke repairs to extend the	useful life of a buildi	ng?					No	
.6. Is this a reques	t to purchase appa	ratus/equipment that is	intended to be perm	anently installed	l at the location of it	s use?			Yes	
7. Is this a reques	t to repair or other	wise improve public pro	perty which is NOT a	building or infra	structure?				No	
.8. Will any other o	department be req	uired to provide assistan	ce in order to compl	ete the project?					No	
9. If funded, will t	his project increas	e the operating expense	for any other depart	ment?					No	
,	\$1,500,000	How was the Project C			Industry References					
udget Impact:	Negligible impact	on the annual operating	expenses less than \$	5,000						
	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	202	25
lanning/Feasibility		\$0								
esign/Engineering	-	\$400,000	\$400,000							
and/ROW Acquisi	tion	\$0								
ite Preparation		\$0								
onstruction		\$1,100,000			\$1,100,000					
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures,		\$0								
echnology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$1,500,000	\$400,000	\$0	\$1,100,000		\$0	\$0	\$0	

	Capital Pi	roject Request	
Project Title:	Water Supply Development	Fiscal Year:	2019
-	Project Descripti	on and Considerations	
Proposed We	#4		
There would continue to o	be no changes to the Town's WMA withdrawal permit. The Well Field is presentl	eliability and redundancy while other wells are taken offline for routine maintena ly at full capacity when all three wells are operational. This fourth well would allo a well was taken offline, the Town had to rely on MWRA water source to meet it nance periods.	w the Town to
-	ngineering funding request includes DEP and Conservation permitting, exploration erring \$400,000	on and test wells program, as well as design of a pitless well with appurtenance.	
FY21 The construct Construction	ion funding request is for an approximately 100' deep well with control, pump a \$1,100,000	ind electrical.	
7. The operat	t requires permitting from DEP and Conservation. Ing budget will need to be increased in order to cover increased monitoring and quipment is intended to be permanently installed at the location of its use.	maintenance expenses that come with having an additional well.	

				Capital Projec	•					
Project Title:		ect to Renovate Mito	chell School & Susta	in Hillside as Sw	ing Space			Fiscal Year:		2021
Purpose:	Feasibility Study		Classification: Bui	lding	St	tatus:	New Request			
Department:	Needham Public	Schools			S	upports:	Public Education	n		
Partners:	Massachusetts So	chool Building Authority	1		U	seful Life:	More than twe	nty-five (25) years		
				Parameters					<u>Re</u>	<u>esponse</u>
. Are there any co	osts to bid, design,	construct, purchase, ins	stall, implement, or ot	herwise complete	the project which a	re NOT includ	ed is this request?		Yes	
. Are there recom	nmendations or cos	sts identified by other d	epartments which are	NOT factored into	o the request?				No	
. Does this projec	t require any perm	nitting by any Town or S	tate agency?						Yes	
I. If this request is	for Technology, ha	as the Department com	municated with ITC, a	nd does ITC suppo	rt the request?				No	
. If this request is	for Building Impro	vements, has the Depa	rtment communicated	l with the Building	Maintenance (BM)	division, and	does BM support th	e request?	Yes	
. If funded, will a	dditional permanei	nt staff be required?					Total New FTE	s: 4	Yes	
. If funded, will th	ne operating budge	et need to be increased	to cover operating exp	enses?					Yes	
8. If funded, will th	nis project lower th	e requesting Departme	nt's operating costs?						No	
). If funded, will th	nis project require	ongoing assistance from	n vendors at an additio	onal expense to the	e Town which is NO	T already bud	geted?		No	
.0. If the project is	s NOT funded, will	current Town revenue b	pe reduced?						No	
1. Is specialized t	raining or annual li	censing required that th	ne Town will need to p	ay in order to use	the asset?				No	
		al Eligibility Project App		th the Community	Preservation Comr	nittee (CPC)?			No	
3. Is this a reques	st in response to a	Court, Federal, or State	order?						No	
		documented public hea							No	
		ake repairs to extend th							Yes	
		aratus/equipment that i				use?			No	
		rwise improve public pr			tructure?				No	
		quired to provide assista		· · ·					Yes	
19. If funded, will t		e the operating expension		ment?					Yes	
Project Cost:	\$750,000	How was the Project			n-House Estimate					
Budget Impact:		nual operating expenses								
•	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibilit		\$750,000			\$750,000					
esign/Engineerin	g	\$0								
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures	, and Equipment	\$0								
echnology Hardw	/are/Software	\$0								
Other Expenses		\$0								

	Capital Project Request		
Project Title:	Combined Project to Renovate Mitchell School & Sustain Hillside as Swing Space	Fiscal Year:	2021
	Project Description and Considerations		

Constructed in 1950, the Mitchell Elementary School has undergone several additions over the past 50 years, but is in need of total renovation/replacement to address building deficiencies and modernize the learning environment. During construction, the school would need to occupy swing space. The FY19-23 CIP includes separate requests to renovate the Mitchell School and to sustain the Hillside School as swing space. These requests are based on the following project schedules which involve updating the Hillside School to accommodate the Mitchell population (FY25) and then renovating the MItchell School (to open Sept '28.)

Preliminary Project Schedule - Sustain the Hillside School as Swing Space for Future Town Use:

Feasibiilty Design: FY21 Design: FY22 Override Ballot Question: FY22 Site Construction: FY23-FY24 Modernized Hillside Opens: July, 2024

Preliminary Project Schedule - Mitchell School Renovation Project: Feasibility Study: FY25 Debt Exclusion Override: FY25 (April 2015) Schematic Design/Design Development/ Project Funding Year: FY26 Mitchell Moves to Swing Space: FY27 Construction: FY27 & FY28 New School Opens: September 2028 (FY29)

In reality, however, combining the two projects may make sense from a logistical and funding perspective, and may serve to accelerate the anticipated completion date of the Mitchell School Renovation. This request is to accelerate feasibility study funding for both projects to FY21 to coincide with the original schedule for the Hillside swing space update. If approved by MSBA, a possible schedule for the combined projects could be as follows, based on Needham's experience with the Hillside Renovation Project with MSBA. The total cost of the project may vary from the existing estimates, based on the combined scope.

Potential Schedule -Combined Project Submit SOI to MSBA (FY20) - Feb '20 - Apr '20) MSBA Board Meeting to Vote SOI (FY21) - Aug '20 Feasibility (FY21-22)- (Oct '20 STM) Funding - Oct '20 STM Bidding Feasibility - Oct '20 - Dec '20 Designer Selection w MSBA - Jan '21 - Mar '21 Feasibility Study - Apr '21 - Jun '22 PDP - Mar '21 - Aug '21 PSR - Sept '21 - Jan '22

	Capital Project Request		
ject Title:	Combined Project to Renovate Mitchell School & Sustain Hillside as Swing Space	Fiscal Year:	2021
	Supplemental Information		
Schematic De	sign Mitchell (FY22) - continued		
DR	Review - Feb '22		
MS	BA/DESE Review - May '22 - Jun '22		
	mit Schematic Design to MSBA - Jun '22		
	edham Boards Approve Schematic Design -Jun '22 - July '22		
	BA Board Meeting - July '22		
Project Fundi			
•	mit Ballot Question to Secretary of State - Aug '22		
	cial Town Meeting - Oct '22		
	erride Ballot Question - Nov '22		
	ject Funding Agreement - Nov '22 - Dec '22		
	opment (FY23)		
	ign Development & Review - Dec '22 - May '23		
	BA Review & Approval - May '23 - Jun '23		
	Space Updated- CM at Risk (FY23 - FY26)		
-	ign Development & Review - Nov '22 - Jan '23		
	istruction Docs (Accelerated) - Feb '23 - May '23		
	ding - Jun ' 23 - Jul '23		
Cor	istruction (11 months) - Aug '23 - July '24		
	chell Moves into Hillside Swing Space - Aug '24		
	chell Occupies Hillside Swing Space - Sep '24 - Jun '26		
	Documents (FY24 - FY24)		
	6 Submittal to MSBA - Oct '23		
90%	6 Submittal to MSBA - Jan '24		
Cor	npletion of Construction Docs - Mar '24		
	ments/ Procurement (FY24-FY25)- Apr '24 - July 24		
Construction	(FY25-27) - Aug ′24 - Aug ′26		
New Building	Opens (FY27) - Sept '26		
Parameters A	ddressed:		
	Not Included: Cost of Design and Construction of Combined Project.		
•	is required by Town Boards.		
-	ovements: The PPBC and Public Facilities Department support this request.		
	e 2.0 Additional Custodians; 2.0 Additional Crossing Guards, Similar to Hillside.		
	dget Increase: Improvements to HVAC, electical system may increase building maintenance expense by more than \$100,000/ye	ear. This placeholder estimate to be re	evised
during design		•	
	I Life: See above narrative.		
Other Depart	mental Assistance: PPBC Project Management; Public Facilities Maintenance & Custodial.		
	dget Increase for Another Department: See above.		

				Capital Pro	oject Request					
Project Title: E	Emery Grover Fe	easibility Study Refre	esh					Fiscal Year:		2019
urpose: F	easibility Study	C	lassification: Bu	uilding		Status:	New Request			
epartment:	Needham Public S	chools				Supports:	Public Education			
artners:						Useful Life:	More than twen	ty-five (25) years		
				Parameters					Re	esponse
. Are there any cost	ts to bid, design, c	onstruct, purchase, ins	tall, implement, or o	therwise compl	ete the project whic	h are NOT includ	ed is this request?		No	
Are there recomm	nendations or cost	ts identified by other de	epartments which ar	e NOT factored	into the request?				No	
. Does this project r	require any permi	tting by any Town or St	ate agency?						No	
. If this request is fo	or Technology, ha	s the Department comr	nunicated with ITC, a	and does ITC sup	oport the request?				No	
If this request is fo	or Building Improv	ements, has the Depar	tment communicate	d with the Build	ing Maintenance (B	M) division, and	does BM support the	request?	No	
. If funded, will add	itional permanen	t staff be required?					Total New FTE's:	:	No	
. If funded, will the	operating budget	need to be increased t	o cover operating ex	penses?					No	
. If funded, will this	project lower the	e requesting Departmer	nt's operating costs?						No	
. If funded, will this	project require o	ngoing assistance from	vendors at an additi	ional expense to	the Town which is	NOT already budg	geted?		No	
0. If the project is N	IOT funded, will c	urrent Town revenue b	e reduced?						No	
		ensing required that th							No	
2. Is this a project f	or which an Initia	l Eligibility Project Appli	ication can be filed w	vith the Commu	nity Preservation Co	ommittee (CPC)?			Yes	
13. Is this a request in response to a Court, Federal, or State order?										
4. Is this a request i	in response to a d	ocumented public heal	th or safety conditio	n?					No	
5. Is this a request t	to improve or mal	ke repairs to extend the	e useful life of a build	ding?					No	
6. Is this a request t	to purchase appar	ratus/equipment that is	intended to be perr	manently installe	ed at the location of	its use?			No	
7. Is this a request t	to repair or other	wise improve public pro	operty which is NOT	a building or inf	rastructure?				No	
8. Will any other de	epartment be requ	uired to provide assista	nce in order to comp	plete the project	?				Yes	
9. If funded, will thi	is project increase	the operating expense	e for any other depar	rtment?					No	
, , , , , , , , , , , , , , , , , , , ,	\$70,000	How was the Project			In-House Estimate					
udget Impact: N	Negligible impact	on the annual operating	g expenses less than	\$5,000						
Project Budge	et Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
anning/Feasibility		\$70,000	\$70,000							
esign/Engineering		\$0								
and/ROW Acquisition	on	\$0								
te Preparation		\$0								
onstruction		\$0								
onstruction Manag	ement	\$0								
quipment		\$0								
urniture, Fixtures, a	and Equipment	\$0								
echnology Hardwar	re/Software	\$0								
ther Expenses		\$0								
OTAL		\$70,000	\$70,000	\$0) \$()			\$0	

Capital Project Request

Project Title: Emery Grover Feasibility Study Refresh

Fiscal Year:

2019

Project Description and Considerations

The 2005 Facilities Master Plan indicated that the Emery Grover School Administration Building is in need of additional office and storage space, as well as extensive repair and modernization. The needed scope of renovation includes reorganizing office and meeting spaces, making the building fully ADA accessible, removing remaining asbestos and lead paint, and replacing deteriorating systems, including: windows, HVAC, electrical and plumbing. These renovations would allow for a more efficient use of space, as well as full utilization of all four floors and full handicapped accessibility. A capital funding request has been separately submitted for this project, based on the preliminary schedule below:

Preliminary Project Schedule - Renovate/Reconstruct Emery Grover Building at Highland Avenue Location:

Feasibility Study: FY14 (\$30,000) Feasibility Study Refresh: FY19 Design: FY20 (May '19 ATM) Project Funding Year: FY21 (May '20 ATM) Emery Grover Occupies Swing Space: FY21-FY22 (July '20 - Sept '22) Construction: FY21-FY22 New Building Opens: 9/2022 (FY23)

A feasibility study was conducted in August 2013 by DesignLAB Architects, which identified several options for the building, including: renovation of the existing building, the purchase/renovation of commercial property, and new construction on an alternate Town-owned parcel. This request is to conducct a 'refresh' of the original study, which was conducted five years ago and which must be refreshed to provide useful information for the design project above. The refreshed study should focus exclusively on a project to renonvate/reconstruct the Emery Grover Building at the Highland Avenue location, rather than the alternate options of purcahsing/renovating commercial property or new construction on another Town-owned parcel. The study should include an updated project budget and schedule, address temporary relocation requirements and identify any building code changes that will be needed to accommodate the projected use. In addition, the study should include the assessment of swing space options including timelines and project budget for the swing space.

Parameters Addressed:

Community Preservation Committee: Funding to be Requested from CPC Other Departmental Assistance: PPBC Project Management

				Capital Proj	ect Request					
Project Title:	Full Day Kinde	rgarten Space Modifi	cations					Fiscal Year:		2020
urpose:	Construction	C	Classification: B	uilding	S	tatus:	Same Request f	rom the Prior CIP		
epartment:	Needham Public	Schools			S	upports:	Public Education			
artners:					U	seful Life:	More than twen	ty-five (25) years		
				Parameters					<u>Re</u>	esponse
. Are there any co	osts to bid, design,	construct, purchase, in	stall, implement, or c	otherwise complet	te the project which a	re NOT include	d is this request?		Yes	
. Are there recom	nmendations or co	sts identified by other o	lepartments which ar	re NOT factored in	nto the request?				No	
. Does this projec	t require any perr	nitting by any Town or S	State agency?						No	
. If this request is	for Technology, h	as the Department com	municated with ITC,	and does ITC supp	port the request?				Yes	
. If this request is	for Building Impro	ovements, has the Depa	rtment communicate	ed with the Buildin	ng Maintenance (BM)	division, and d	oes BM support the	e request?	Yes	
. If funded, will ac	dditional permane	nt staff be required?					Total New FTE's	:	No	
. If funded, will th	ne operating budg	et need to be increased	to cover operating ex	xpenses?					No	
. If funded, will th	nis project lower tl	ne requesting Departme	ent's operating costs?						No	
. If funded, will th	nis project require	ongoing assistance from	n vendors at an addit	ional expense to t	he Town which is NO	T already budge	eted?		No	
0. If the project is	s NOT funded, will	current Town revenue	be reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?										
2. Is this a project	t for which an Initi	al Eligibility Project App	lication can be filed w	with the Communi	ity Preservation Comr	nittee (CPC)?			No	
13. Is this a request in response to a Court, Federal, or State order?										
4. Is this a reques	st in response to a	documented public hea	Ith or safety conditio	on?					No	
5. Is this a reques	st to improve or m	ake repairs to extend th	e useful life of a build	ding?					No	
6. Is this a reques	st to purchase app	aratus/equipment that	is intended to be peri	manently installed	l at the location of its	use?			No	
7. Is this a reques	st to repair or othe	erwise improve public pr	operty which is NOT	a building or infra	structure?				No	
8. Will any other	department be re	quired to provide assista	ance in order to com	plete the project?					Yes	
9. If funded, will t	this project increa	se the operating expens	e for any other depa	rtment?					No	
roject Cost:	\$50,000	How was the Project	Cost Determined:		In-House Estimate					
udget Impact:	Negligible impac	t on the annual operatin	ng expenses less than	\$5,000						
Project Bud	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibilit	ÿ	\$0								
esign/Engineerin	g	\$0								
and/ROW Acquisi	ition	\$0								
ite Preparation		\$0								
onstruction		\$20,000		\$20,000						
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures	, and Equipment	\$0								
echnology Hardw	vare/Software	\$0								
		\$30,000		\$30,000						
Other Expenses		JJ0,000		<i>230,000</i>						

Capital Project Request

Project Title: Full Day Kindergarten Space Modifications

Fiscal Year:

2020

Project Description and Considerations

The School Committee has prioritized the implementation of Full-Day Kindergarten (FDK) in Needham. Based on a preliminary analysis completed in June 2015 (and updated in December 2015), up to five additional classrooms maybe needed in the year of initial implementation, to accommodate the projected population of Kindergarteners at an average class size of 20 students. These classrooms could be provided by re-purposing non-traditional space at each elementary school, such as art/music/world language/technology classrooms, or by re-using available space at the existing Hillside School, or another Town building. Based on the accelerated schedule for completing construction of the new HIllside School at Central Avenue, the existing Hillside will become vacant in September 2019, when the new school is completed.

In FY18, Town Meeting appropriated \$50,000 for a space planning/feasibility study that would identify the exact spaces needed for Full Day Kindergarten, and plan for any retrofits required to these spaces. This Feasibility Study is expected to be completed by February 26, 2018. This request is a companion to that study and represents **a placeholder request** for the funding needed to implement the modifications/retrofits identified by the Feasibility Study. The project includes a placeholder estimate of \$30,000 for repairs, to be expended as needed, plus \$20,000 to purchase Kindergarten classroom technology,furniture and/or play equipment. (The budgeted cost of furniture is \$5,000 per classroom.) Other operational expenses associated with Full-Day Kindergarten would be provided through the operating budget.

Parameters Addressed:

Project Costs Not Included: Operational cost of Full-Day Kindergarten implementation to be funded through Operating Budget

Technology: The School Instructional Technology Department is in support of this request. New classroom spaces identified through the Feasibility Study could require a retrofit for classroom technology (including Interactive Whiteboards and Computers), the funding for which would come from this project budget.

Building Improvements: The PPBC and Public Facilities Department support this request. The feasibility study will identify the type, scope and budget of any facility retrofits needed. Other Departmental Assistance: PPBC or Public Facilities Project Management, depending on the type, scope and budget of any facility retrofits needed.

				Capital Proje	ct Request					
Project Title:	Mitchell School	Renovation						Fiscal Year:		2025
Purpose:	Construction		Classification: Bui	lding	S	tatus:	Same Reques	t from the Prior CIP		
Department:	Needham Public	Schools			S	upports:	Public Educat	-		
Partners:	Massachusetts Sc	hool Building Authorit	y		L	seful Life:	More than tw	enty-five (25) years		
				Parameters						<u>Response</u>
1. Are there any c	osts to bid, design,	construct, purchase, in	stall, implement, or ot	nerwise complete	the project which a	re NOT include	ed is this request?		Yes	
2. Are there recor	nmendations or cos	sts identified by other o	departments which are	NOT factored int	o the request?				No	
3. Does this proje	ct require any perm	itting by any Town or S	State agency?						Yes	
4. If this request i	s for Technology, ha	as the Department com	municated with ITC, a	nd does ITC suppo	ort the request?				Yes	
5. If this request i	s for Building Impro	vements, has the Depa	irtment communicated	with the Building	g Maintenance (BM)	division, and	does BM support	the request?	Yes	
5. If funded, will a	dditional permaner	nt staff be required?					Total New FT	E's: 4	Yes	
7. If funded, will t	he operating budge	t need to be increased	to cover operating exp	enses?			·		Yes	
8. If funded, will t	his project lower th	e requesting Departme	ent's operating costs?						No	
9. If funded, will t	his project require o	ongoing assistance fror	n vendors at an additio	nal expense to th	e Town which is NO	T already budg	geted?		No	
10. If the project i	is NOT funded, will	current Town revenue	be reduced?						No	
11. Is specialized	training or annual li	censing required that t	he Town will need to p	ay in order to use	the asset?				No	
12. Is this a projed	ct for which an Initia	al Eligibility Project App	lication can be filed wi	th the Community	y Preservation Com	nittee (CPC)?			No	
13. Is this a reque	st in response to a (Court, Federal, or State	order?						No	
14. Is this a reque	st in response to a o	documented public hea	alth or safety condition	?					No	
15. Is this a reque	st to improve or ma	ake repairs to extend the	ne useful life of a buildi	ng?					Yes	
16. Is this a reque	st to purchase appa	ratus/equipment that	is intended to be perm	anently installed a	at the location of its	use?			No	
17. Is this a reque	st to repair or othe	rwise improve public p	roperty which is NOT a	building or infras	tructure?				No	
18. Will any other	department be rec	uired to provide assist	ance in order to compl	ete the project?					Yes	
19. If funded, will	this project increas	e the operating expens	se for any other depart	ment?					Yes	
Project Cost:	\$650,000	How was the Projec	t Cost Determined:	F	lired Consultant					
Budget Impact:		ual operating expense	s by more than \$100,00	00				-		
•	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
Planning/Feasibili	ty	\$650,000								\$650 <i>,</i> 0
Design/Engineerii		\$0								
Land/ROW Acquis	sition	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Mar	nagement	\$0								
Equipment		\$0								
Furniture, Fixture	s, and Equipment	\$0								
Technology Hard	ware/Software	\$0								
Other Expenses		\$0								
TOTAL		\$650,000	\$0	\$0	\$0		\$0	\$0	\$0	\$650,0

Capital Project Request

Project Title: Mitchell School Renovation

Project Description and Considerations

Constructed in 1950, the Mitchell Elementary School has undergone several additions over the past 50 years, but is in need of total renovation/replacement to address building deficiencies and modernize the learning environment. This request would bring the Mitchell facility to a level of modernization comparable to that of the Hillside School, which is in the midst of an ongoing renovation project. The Town of Needham has submitted Statements of Interest to the MSBA to partner with the Town in renovating this school, but has not yet received an invitation to move forward with construction.

This is a project to renovate/replace the Mitchell School and is contingent upon the MSBA agreeing to partner with the Town in completing this project. It is possible that a modified project scope could be considered. Final decisions will be made upon project acceptance and a feasibility study, completed jointly with the MSBA. Project costs are based on a 2014 update of a 2012 Dore & Whittier Pre-feasibility estimate for an 82,227 s.f. 503-student school (Option 1A.3, New Construction), plus \$650,000 for pre-feasibility design.

Preliminary Project Schedule:

Feasibility Study: FY25 Debt Exclusion Override: FY25 (April 2015) Schematic Design/Design Development/ Project Funding Year: FY26 Mitchell Moves to Swing Space: FY27 Construction: FY27 & FY28 New School Opens: September 2028 (FY29)

Project Budget:

The Total estimated project cost of \$88,526,200 occurs outside of the five-year window and is detailed in the chart below. The total budget excludes the cost of swing space, which is described in a separate capital request, either in the form of renovating the Hillside School for use as swing space, or the cost of constructing a temporary school at DeFazio Park. Project costs are based on a 2012 Dore & Whittier Pre-feasibility estimate of \$39,543,000 for an 82,227 s.f. 503-student school (Option 1A.3, New Construction), plus \$650,000 for pre-feasibility design. The Dore & Whittier costs, developed in 2012, were updated in 2014 and escalated for 14 years to FY27 (the mid-point of construction.) The FY25 cost of \$650,000 represents the cost of feasibility design.

This project reflects a 5% escalation factor, beginning in FY17, based on advice from the PPBC.

The preliminary estimated MSBA reimbusement rate for this project is 32.47%.

Parameters Addressed:

Project Costs Not Included: See Project Budget narrative above.

Permitting: As required by Town Boards.

Technology: The School Instructional Technology Department is in support of this request. The estimated project cost includes a full FF&E budget for this new facility, including classroom technology.

Building Improvements: The PPBC and Public Facilities Department support this request.

FTE: Estimate 2.0 Additional Custodians; 2.0 Additional Crossing Guards, Similar to Hillside.

Fiscal Year: 2025

Capital Project Request

Project Title: Mitchell School Renovation

Fiscal Year:

2025

Supplemental Information

Mitchell School Renovation/ Replacement, Based on 2014 Dore & Whittier PreFeasibility Study Option 1A.2a, New School Construction for 503 Students, Updated 2014 Scheduled opening: September 2023 (FY24)

	82,227 SF Building	Feasibilty	Construction*	A/E	FF&E	Constr Mgnt	Total	Cost/SF
	FY14 Project Cost (D&W)	650,000	34,781,640	6,048,928	1,207,200	1,512,232	44,200,000	
	TOTAL	650,000	34,781,640	6,048,928	1,207,200	1,512,232	44,200,000	\$538
		1%	79%	14%	3%	3%	100%	
6.00%	FY15 Cost Multiplier @ 6%	650,000	36,868,538	6,411,864	1,279,632	1,602,966	46,813,000	\$569
6.00%	FY16 Cost Multiplier @ 6%	650,000	39,080,651	6,796,576	1,356,410	1,699,144	49,582,780	\$603
5.00%	FY17 Cost Multiplier @ 3.8%	650,000	41,034,683	7,136,404	1,424,230	1,784,101	52,029,419	\$633
5.00%	FY18 Cost Multiplier @ 3.8%	650,000	43,086,417	7,493,224	1,495,442	1,873,306	54,598,390	\$664
5.00%	FY19 Cost Multiplier @ 3.8%	650,000	45,240,738	7,867,886	1,570,214	1,966,971	57,295,809	\$697
5.00%	FY20 Cost Multiplier @ 3.8%	650,000	47,502,775	8,261,280	1,648,725	2,065,320	60,128,100	\$731
5.00%	FY21 Cost Multiplier @ 3.8%	650,000	49,877,914	8,674,344	1,731,161	2,168,586	63,102,005	\$767
5.00%	FY21 Cost Multiplier @ 3.8%	650,000	52,371,810	9,108,061	1,817,719	2,277,015	66,224,605	\$805
5.00%	FY22 Cost Multiplier @ 3.8%	650,000	54,990,400	9,563,464	1,908,605	2,390,866	69,503,335	\$845
5.00%	FY23 Cost Multiplier @ 3.8%	650,000	57,739,920	10,041,637	2,004,035	2,510,409	72,946,002	\$887
5.00%	FY24 Cost Multiplier @ 3.8%	650,000	60,626,916	10,543,719	2,104,237	2,635,930	76,560,802	\$931
5.00%	FY25 Cost Multiplier @ 3.8%	650,000	63,658,262	11,070,905	2,209,449	2,767,726	80,356,342	\$977
5.00%	FY26 Cost Multiplier @ 3.8%	650,000	66,841,175	11,624,451	2,319,921	2,906,113	84,341,660	\$1,026
5.00%	FY27 Cost Multiplier @ 3.8%	650,000	70,183,234	12,205,673	2,435,917	3,051,418	88,526,243	\$1,077
14	Years TOTAL PROJECT COST	650,000	70,183,234	12,205,673	2,435,917	3,051,418	88,526,243	\$1,077
	TOTAL COST (ROUNDED)	650,000	70,183,200	12,205,700	2,435,900	3,051,400	88,526,200	\$1,077

* Excludes modular temporary classrooms

Square Footage

82,227

Note - costs escalated at rates shown above, to midpoint of construction (FY27). There are 2 construction years, FY27 and FY28. School opens FY29 (Sept 2028). Mitchell moves to swing space FY27. FY25 is feasibility funding year; FY26 is design & full funding year.

	FY25	FY26	FY27	
Fesibility	650,000			650,000
Arch/Engineering		12,205,700		12,205,700
Construction			75,670,500	75,670,500
	650,000	12,205,700	75,670,500	88,526,200

				Capital Pro	oject Request					
roject Title:	Newman Presc	nool Playground Cus	tom Shade She	elter				Fiscal Year:	2	2020
urpose:	Acquisition	C	lassification:	Equipment		Status:	New Request			
epartment:	Needham Public S	Schools				Supports:	Public Education			
artners:						Useful Life:				
				Parameters					<u>Re</u>	sponse
. Are there any co	sts to bid, design,	construct, purchase, ins	stall, implement,	or otherwise comp	lete the project which	are NOT includ	ed is this request?		No	
. Are there recom	mendations or cos	ts identified by other d	epartments which	ch are NOT factored	into the request?				No	
. Does this project	t require any perm	itting by any Town or S	tate agency?						Yes	
. If this request is	for Technology, ha	s the Department com	municated with	ITC, and does ITC su	pport the request?				No	
. If this request is	for Building Impro	vements, has the Depa	rtment commun	icated with the Build	ding Maintenance (BN	1) division, and	does BM support the	request?	No	
. If funded, will ad	ditional permaner	it staff be required?					Total New FTE's:		No	
. If funded, will th	e operating budge	t need to be increased	to cover operatii	ng expenses?					No	
. If funded, will th	is project lower th	e requesting Departme	nt's operating co	osts?					No	
. If funded, will th	is project require c	ongoing assistance from	n vendors at an a	dditional expense to	o the Town which is N	OT already bud	geted?		No	
0. If the project is	NOT funded, will o	current Town revenue b	pe reduced?						No	
1. Is specialized tr	aining or annual lie	censing required that th	ne Town will nee	d to pay in order to	use the asset?				No	
Is this a project	for which an Initia	I Eligibility Project App	lication can be fi	led with the Commu	inity Preservation Cor	nmittee (CPC)?			No	
3. Is this a request	t in response to a O	Court, Federal, or State	order?						No	
4. Is this a request	t in response to a c	locumented public hea	Ith or safety con	dition?					No	
5. Is this a request	t to improve or ma	ke repairs to extend th	e useful life of a	building?					No	
6. Is this a request	t to purchase appa	ratus/equipment that i	s intended to be	permanently install	ed at the location of i	ts use?			Yes	
7. Is this a request	t to repair or other	wise improve public pr	operty which is I	NOT a building or inf	frastructure?				Yes	
8. Will any other o	department be req	uired to provide assista	ance in order to o	complete the projec	t?				Yes	
9. If funded, will t	his project increas	e the operating expense	e for any other d	lepartment?					No	
roject Cost:	\$49,800	How was the Project	Cost Determine	d:	Industry Reference	S			·	
udget Impact:	Negligible impact	on the annual operatir	ig expenses less	than \$5,000				-		
	get Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	2025
lanning/Feasibility	/	\$0								
esign/Engineering	5	\$0								
and/ROW Acquisi	tion	\$0								
te Preparation		\$0								
onstruction		\$0								
onstruction Mana	gement	\$0								
quipment		\$0								
urniture, Fixtures,		\$49,800		\$49,80	0					
echnology Hardw	are/Software	\$0								
ther Expenses		\$0								
ther Expenses		7 -								

Capital Project Request

Project Title: Newman Preschool Playground Custom Shade Shelter

Fiscal Year:

2020

Project Description and Considerations

The Newman Preschool playground was renovated in FY14. The playground is situated in a part of the school that has constant sunlight. At this time, access to the playground is limited to mild weather given that there is no available shade on the playground and temperatures climb rapidly on sunny days. About half of the children who attend the preschool are identified as having special needs, and many struggle with their social-emotional skills. A custom shade shelter would increase the students' comfort and access to the playground, which in turn would create more meaningful social opportunities for them during their day. It is also worth noting that this impacts the program year round, as the preschool runs a summer program for students who require year- round special education services.

This request is for a custom shade shelter to be built over the center section of the playground. The quoted structure consists of five steel columns and three triangular 'sail style' canopy tops, of the type depicted in the picture below. This structure would provide the shade necessary for students and staff to remain outside during recess periods. The quoted purchase and installation cost is \$43,000 (2017.) The estimated FY20 cost of \$49,800 includes an annual inflation adjustment of 5%. Permitting would be required.



				Capital Pro	ject Request					
Project Title:	Pollard Phased	Improvements Feasi	bility Study					Fiscal Year:		2019
urpose:	Construction	C	lassification: Bu	uilding		Status:	Amended Reques	st from the Prior C	CIP	
Department:	Needham Public	Schools				Supports:	Public Education			
Partners:						Useful Life:	More than twent	/-five (25) years		
				Parameters					<u>Re</u>	esponse
Are there any co	osts to bid, design,	construct, purchase, ins	tall, implement, or c	otherwise comple	ete the project whi	ch are NOT inclue	ded is this request?		No	
. Are there recon	nmendations or cos	sts identified by other de	epartments which ar	re NOT factored i	nto the request?				No	
. Does this projec	ct require any perm	nitting by any Town or St	tate agency?						No	
. If this request is	s for Technology, ha	as the Department com	nunicated with ITC,	and does ITC sup	port the request?				No	
. If this request is	s for Building Impro	vements, has the Depar	tment communicate	ed with the Build	ng Maintenance (E	M) division, and	does BM support the	request?	Yes	
. If funded, will a	dditional permaner	nt staff be required?					Total New FTE's:		No	
. If funded, will th	he operating budge	t need to be increased t	o cover operating ex	xpenses?					No	
3. If funded, will th	his project lower th	e requesting Departmer	nt's operating costs?						No	
. If funded, will th	his project require of	ongoing assistance from	vendors at an addit	ional expense to	the Town which is	NOT already buc	lgeted?		No	
0. If the project is	s NOT funded, will	current Town revenue b	e reduced?						No	
1. Is specialized t	raining or annual li	censing required that th	e Town will need to	pay in order to u	se the asset?				No	
2. Is this a projec	t for which an Initia	al Eligibility Project Appl	ication can be filed v	with the Commu	nity Preservation Co	ommittee (CPC)?			No	
3. Is this a reque	st in response to a (Court, Federal, or State	order?						No	
.4. Is this a reques	st in response to a o	documented public heal	th or safety conditio	n?					No	
5. Is this a reque	st to improve or ma	ake repairs to extend the	e useful life of a build	ding?					No	
6. Is this a reque	st to purchase appa	aratus/equipment that is	s intended to be peri	manently installe	d at the location o	f its use?			No	
7. Is this a reque	st to repair or othe	rwise improve public pro	operty which is NOT	a building or infr	astructure?				No	
		uired to provide assista							Yes	
9. If funded, will	this project increas	e the operating expense	e for any other depar	rtment?					No	
Project Cost:	\$65,000	How was the Project	Cost Determined:		In-House Estimate	9				
Budget Impact:	Negligible impact	on the annual operatin	g expenses less than	\$5,000				•		
Project Bud	dget Elements	Project Budget	2019	2020	2021	2022	2023	2024		2025
lanning/Feasibilit	ty	\$65,000	\$65,000							
esign/Engineerin	ıg	\$0								
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures	s, and Equipment	\$0								
	vare/Software	\$0								
echnology Hardv										
Fechnology Hardv Other Expenses		\$0								

Capital Project Request

Project Title: Pollard Phased Improvements Feasibility Study

Fiscal Year:

2019

Project Description and Considerations

This is a project to study the feasibility of phasing the Pollard Improvements project over multiple years, for the purpose of best addressing the needs of that facility in the most timely and economically feasible manner possible. Additionally, the study should evaluate the current condition of the Pollard modulars and develop recommendations (as needed) for extending their useful life until such time as they can be replaced with permanent construction.

The Pollard Improvements Project is presented as a separate Capital Improvement Project Request, timed for initial funding in FY 27. This project is based on a 2011 facilities assessment completed by Dore & Whittier Architects, which identified approximately \$17.8 million in needed upgrades to the Pollard School. These were upgrades that could not be undertaken as part of the regular maintenance budget, due to their large scope and/or cost, and included: renovation and enlargement of the science and engineering classrooms, updates to the auditorium and reconfiguration of the administration area. The science classrooms are undersized compared to Massachusetts School Building Authority (MSBA) standards, do not have adequate prep rooms or storage spaces and include casework and plumbing fixtures that are in poor condition. The engineering classroom is a converted space that is not well-suited to delivery of the curriculum. The auditorium needs updating, including sound and lighting upgrades, in order to remain a suitable space for performing arts, guest lectures and assemblies. In addition, the administration space, which is located on the side of the building, is difficult for visitors to locate, doesn't allow school personnel to view visitors as they approach the building and is undersized by MSBA standards. Finally, the modular classrooms, constructed in 2002, are not designed as permanent, long-term facilities. They are constructed of inexpensive materials, in off site production style construction techniques and are not energy efficient. A long-term solution will be required within the next five to ten years. (The expected lifespan for modular classrooms is 20-25 years.)

Given the scope and cost of these upgrades, as well as the need to modernize other school facilities within the next ten year period (Hillside School, Mitchell School, Emery Grover Administration Building), the School Department has requested funding for these improvements beginning in FY27, with an expected completion year in September 2030 (FY31.) The placement of this project so far into the future defers these needed improvements by more than a decade, resulting in significantly increased cost and a lengthy period of unmet need.

The purpose of the feasibility study is to determine whether or not it would be possible to phase the project over multiple years with the goal of accelerating completion of the project and reducing the overall project cost. A particular emphasis is the Pollard modular classrooms, which are nearing the end of their useful life, but which are needed to meet the current program of studies for the projected enrollment. The study should also look at the cost benefit of completing the science classrooms first to create swing space when the modular classrooms are demolished, examine strategies to maximize potential MSBA reimbursement for this project and, finally, estimate future need, based on long-term enrollment trends. In addition, some ongoing maintenance repair work may have reduced the scope of the overall project, such as the relocation of the administrative offices at Pollard, renovations to bathrooms and auditorium seating improvements.

This request is amended from last year to reflect a FY2019 funding year, since it was not funded in FY18.

Parameters Addressed:

Other Departmental Assistance: PPBC Project Management

				Capital P	roject Request					
Project Title: P	ollard School R	enovation						Fiscal Year:	2(027
Purpose: C	onstruction		Classification:	Building		Status:	Same Request fro	om the Prior CIP		
Pepartment: N	leedham Public So	chools		-		Supports:	Public Education			
artners: N	Aassachusetts Sch	ool Building Authorit	.y			Useful Life:	More than twent	/-five (25) years		
				Parameters					Resp	ponse
. Are there any cost	s to bid, design, co	onstruct, purchase, ir	nstall, implemen	it, or otherwise com	plete the project w	nich are NOT inclu	ded is this request?		Yes	
. Are there recomm	endations or cost	s identified by other	departments wh	nich are NOT factore	ed into the request?				No	
. Does this project r	equire any permit	ting by any Town or	State agency?						Yes	
. If this request is fo	r Technology, has	the Department con	nmunicated with	n ITC, and does ITC s	upport the request	?			Yes	
. If this request is fo	r Building Improv	ements, has the Depa	artment commu	inicated with the Bu	ilding Maintenance	(BM) division, an	d does BM support the	request?	No	
. If funded, will addi	itional permanent	staff be required?					Total New FTE's:		No	
. If funded, will the	operating budget	need to be increased	l to cover operat	ting expenses?					Yes	
. If funded, will this	project lower the	requesting Departm	ent's operating of	costs?					No	
. If funded, will this	project require or	ngoing assistance fro	m vendors at an	additional expense	to the Town which	is NOT already bu	dgeted?		No	
0. If the project is N	ΟT funded, will cι	urrent Town revenue	be reduced?						No	
1. Is specialized trai	ning or annual lice	ensing required that t	the Town will ne	ed to pay in order t	o use the asset?				No	
 Is this a project for 	or which an Initial	Eligibility Project App	olication can be	filed with the Comn	nunity Preservation	Committee (CPC)			No	
3. Is this a request in	n response to a Co	ourt, Federal, or State	e order?						No	
4. Is this a request in	n response to a do	ocumented public he	alth or safety co	ndition?					No	
5. Is this a request t	o improve or mak	e repairs to extend t	he useful life of	a building?					Yes	
6. Is this a request t	o purchase appara	atus/equipment that	is intended to b	e permanently insta	alled at the location	of its use?			No	
7. Is this a request t	o repair or otherw	vise improve public p	property which is	s NOT a building or i	nfrastructure?				No	
8. Will any other de	partment be requ	ired to provide assist	tance in order to	o complete the proje	ect?				Yes	
.9. If funded, will this	s project increase	the operating expen	se for any other	department?					Yes	
Project Cost: \$	0	How was the Projec	t Cost Determin	ed:	Hired Consultan	t				
udget Impact: N	/lay increase annu	al operating expense	s by more than	\$100,000						
Project Budge	t Elements	Project Budget	2019	2020	2021	2022	2023	2024	20	025
lanning/Feasibility		\$0								
esign/Engineering		\$0								
and/ROW Acquisitic	on	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Manage	ement	\$0								
quipment		\$0								
urniture, Fixtures, a	nd Equipment	\$0								
echnology Hardwar		\$0								
÷.										
Other Expenses		\$0								

\$0

Capital Project Request

Project Title: Pollard School Renovation

Fiscal Year:

2027

Project Description and Considerations

In 2011, a facilities assessment was conducted of the Mitchell, Hillside and Pollard Schools. This assessment identified repair projects that should be undertaken to extend the useful life of these school buildings. It also identified, in summary fashion, the need for programmatic improvements at the Pollard Middle School, for the purpose of adapting Pollard to the "21st Century Learning" environment. This environment reflects changes in education that have occurred over the past 50 years, induding technology integration, project-based learning, team-teaching, multi-disciplinary collaboration and special education delivery methods. Dore & Whittier, the architects who conducted the facilities assessment, concluded that a detailed programmatic study be undertaken, in order to understand the full scope of the programmatic improvements needed and to ensure that any future renovation/improvement project be comprehensive enough to meet both the facility maintenance and programmatic needs of the school for the next several decades.

Many of the improvements identified in the facilities assessment have been, or will be, completed through the regular maintenance program. These include: bathroom renovation; interior door replacement; installation of LED exist signs; roof repair; installation of new gas main on Harris Ave.; replacement of the telephone, PA and clock systems; replacement of the paved walkway from the parking lot to the building; water fountain replacement; demolition of the condemned bridge; auditorium seating replacement; gym flooring replacement; removal of remaining VCT aand VAT flooring in the 1958 wing; water heater replacement; removal and abatement of the fuel oil tank; boiler replacement; classroom lighting replacement; asbestos abeatement.

Other identified improvements, however, will not be undertaken as part of the regular maintenance budget. These include: renovation and enlargement of the science and engineering classrooms, updates to the auditorium and reconfiguration of the administration area. The science classrooms are undersized from Massachusetts School Building Authority (MSBA) standards, do not have adequate prep rooms or storage spaces and include casework and plumbing fixtures that are in poor condition. The engineering classroom is a converted space that is not well-suited to delivery of the curriculum. The auditorium needs updating, including sound and lighting upgrades, in order to remain a suitable space for performing arts, guest lectures and assemblies. In addition, the administration space, which is located on the side of the building, is difficult for visitors to locate, doesn't allow school personnel to view visitors as they approach the building and is undersized by MSBA standards. Finally, the modular classrooms, constructed in 2002, are not designed as permanent, long-term facilities. They are constructed of inexpensive materials, in fast-production style construction techniques and are not energy efficient. A long-term solution will be required within the next fifteen years. (The expected lifespan for modular classrooms is 20-25 years.)

This request is for funds to repair/renovate the Pollard Middle School to address identified deficiencies and meet programmatic needs. The projected cost was developed by Needham Public Schools, based on improvements identified in the Condition Assessment, which Public Facilities does NOT expect to undertake from its regular maintenance budget. These projects include the following: Replace Doors (#1.03 \$113,880), Renovate Exit Corridors Near Band Room (#1.17 \$131,400), Remove Borrowed Lights in 1958 Building (#2.02, \$47,085), Sprinkler Remaining Building (#2.03, \$1,620,600), New Science Classroom Addition Option 3 (#3.01.3, \$6,745,200), Relocate Administration & Convert Existing Administration to Classroom (#3.02, \$1,423,500), Renovate Multi-Stall Toilet Rooms Near Auditorium (#3.03, \$952,650), Renovate Auditorium (HVAC, Light, Flooring, Seating) (#3.08, \$2,392.575), Replace Existing Signage (#4.05, \$4,380), Upgrade Elevator Controls (#4.07, \$43,800), Accessibility Improvements to Choral Room & Lecture Hall (#4.08, \$19,710), Sell or Demolish Modular Classrooms (#5.1, \$9,855), Replace Water Distribution Piping (#5.15, \$416,100), Replace Classroom Sinks (#5.17, \$76,650), Remove Pneumatic Control System & Replace with Electronic (#5.19, \$697,515), Replace Classroom Unit Ventilators & Repairs to Roof (#5.21, \$660,285), In Core & Assembly Areas & Replace with VAV Heat/Cool RTUs (#5.22, \$1,018,350), Electrical Service Upgrade (#5.24, \$996,450), Replace Fire Alarm Control Panels (#5.25, \$48,180), Replace PA System Head End (#5.26, \$52,000), New Site Drainage Structures & Pipe (#5.28, \$181,770), and Provide New Server & Water Line Connections (#5.29, \$153,300.) The cost of item #3.01.3 is based on "Science Option 3," which constructs a 14,500 s.f. science wing addition to the school. A Statement of Interest will be filed with the MSBA to initiate a dialog about this facility. It is possible that a modified project scope could be considered. Final decisions will be made upon project acceptance and a feasibility study, c

Capital Project Request

Project Title: Pollard School Renovation

Preliminary Project Schedule:

Feasibility Study: FY27 Schematic Design/Project Funding Year: FY28 Pollard Moves to Swing Space: FY29 Construction: FY29-30 Renovated School Opens: September 2030 (FY31)

Preliminary Budget:

Project costs based on Dore & Whittier Facilities Assessment, 2014. The total project budget is \$72,004,100 and is broken out in the chart below. Costs escalated at 6%/year (FY15 & FY16), and 5%/year, thereafter. The preliminary MSBA reimbusement rate for this project is 32.47%. This project is revised from prior years to use a 5% escalation factor in fiscal years beginning FY17, as directed by the PPBC.

Parameters Addressed:

Project Costs Not Included: See Project Budget narrative above. Permitting: As required by Town Boards. Building Improvements: The PPBC and Public Facilities Department support this request. Operating Budget Increase: Improvements to HVAC, electical system may increase building maintenance expense by more than \$100,000/year. This placeholder estimate to be revised

Pollard Improvements Dore & Whittier, Comprehensive Facilities Assessment, 2014

	Construction		
From Condition Assessment - Pollard Long-Term Improvements			
1.03 Replace Corridor/Doors w Fire Rated Doors	113,880	Assume	<u> </u>
1.17 Renovate Exit Corridors Near Band Room	131,400	Feasibli	ty - 1 year
2.02 Remove Borrowed Lites in 1958 Building	47,085	Design	- 1 year
2.03 Sprinkler Remaining Building	1,620,600	Constru	ction - 2 Years
3.01.3 New Science Classroom Addition (Option 3)	6,745,200		
3.02 Relocate Admin, Convert Existing Admin to Classrooms	1,423,500	Assume	<u> </u>
3.03 Multi-Stall Toilet Rooms Near Auditorium	952,650	Feasibli	ty Funding Year - FY27
3.08 Renovate Auditorium AHVAC, Lighting, Flooring, Seating	2,392,575	Project	Funding Year - FY28
4.05 Replace Existing Signage	4,380	Midpt of	f Constr - FY29 (15 Years Escal
4.07 Upgrade Elevator Controls	43,800		
4.08 Accessibility Improvements to Choral Room & Lecture Hal	I 19,710		
5.1 Sell or Demolish Modular Classrooms; Regrade Area	9,855		
5.15 Replace Water Distribution Piping	416,100		
5.17 Replace Classrom Sinks	76,650		
5.19 Remove Pneumatic Control System & Replace with Electro			
5.21 Replace Classroom Unit Ventilators, Repairs to Roof	660,285		
5.22 In Core & Assembly Areas, Replace with VAV Heat/Cool R	TUs 1,018,350		
5.24 Electrical Service Upgrade	996,450		
5.25 Replace Fire Alarm Control Panels	48,180		
5.26 Replace PA System Head End	52,000		
5.28 New Site Drainage Structures & Pipe	181,770		
5.29 Provide New Server & Water Line Connections	153,300		
Subtotal Condition Assessment Cost	17,805,235		
General Conditions Allowance	1,780,524	10% of construction	6.00% FY15 & FY16
Escalation to Mid Point of Construction	21,910,889	15 Yrs to 2029	5.00% Afterward
Subtotal A Construction	Section43,496,645		
Bonds	414,966	1% of Subtotal A	
Insurance	414,966	1% of Subtotal A	

Fiscal Year:

2027

	5.21 Replace Classroom Unit Ventilators, Repairs to Roof 5.22 In Core & Assembly Areas, Replace with VAV Heat/(Town of Negginan			
	5.22 In core & Assembly Areas, Replace with VAV Heart 5.24 Electrical Service Upgrade	apital Improvenant	Plan		
	5.25 Replace Fire Alarm Control Panels	January 209180			
	5.26 Replace PA System Head End	52,000			
	5.28 New Site Drainage Structures & Pipe	181,770			
	5.29 Provide New Server & Water Line Connections	Capital Project Request			
oject Title:	Subtotal Condition Assessment Cost Pollard School Renovation	17,805,235		Fiscal Year:	2027
	General Conditions Allowance	1,780,524	10% of construction	6.00% FY15 & FY16	
	Escalation to Mid Point of Construction	21,910,889	15 Yrs to 2029	5.00% Afterward	
	Subtotal A Construction	41,496,648			
	Bonds	414,966	1% of Subtotal A		
	Insurance	414,966	1% of Subtotal A		
	Subtotal B Construction	42,326,581			
	Fee	534,157	3% of Condition Assessment Cost		
	Design & Pricing	6,348,987	15% of Subtotal B		
	Total Construction Cost	49,209,725			
	Project Contingency - Construction	7,381,459	15% of Total Construction		
	Project Contingency - Owner	2,460,486	5% of Total Construction		
	Subtotal Contingency	9,841,945			
	Soft Cost (OPM, A/E, Survey, etc)	12,302,431	25% of Total Construction		
	FF&E				
	Total	71,354,101			
	Summary				
	Construction Cost	49,209,725			
	Project Contingency	9,841,945			
	Soft Cost FF&E	12,302,431			
	Total	71,354,101	(Excluding Feasibility)		
		Total	Rounded Total		
	Feasibility	650,000	650,000		
	Schematic Design	9,841,945	9,841,900		
	Construction	56,591,184	56,591,200		
	Owners Project Contingency (Other)	2,460,486	2,460,500		
	Construction Management	2,460,486	2,460,500		
	Total	72,004,101	72,004,100		

				Capital Proje	ect Request					
Project Title:	Renovate/Reco	onstruct Emery Grov	er Building at Hig	hland Avenue Lo	cation			Fiscal Year:	2	020
Purpose:	Construction	C	Classification:	Building	S	tatus:	Amended Requ	est from the Prior (CIP	
Department:	Needham Public	Schools			S	upports:	Public Education	า		
Partners:	Community Pres	ervation			ι	Jseful Life:	More than twer	nty-five (25) years		
				Parameters					Res	ponse
Are there any cos	sts to bid, design,	construct, purchase, in:	stall, implement, or	otherwise complet	e the project which a	are NOT includ	ed is this request?		Yes	
. Are there recomr	mendations or co	sts identified by other d	lepartments which	are NOT factored ir	nto the request?				No	
. Does this project	require any pern	nitting by any Town or S	State agency?						Yes	
. If this request is f	or Technology, h	as the Department com	municated with ITC	C, and does ITC supp	oort the request?				Yes	
. If this request is f	or Building Impro	ovements, has the Depa	rtment communica	ted with the Buildir	ng Maintenance (BM)	division, and	does BM support th	e request?	Yes	
. If funded, will add	ditional permane	nt staff be required?					Total New FTE's	: 2	Yes	
. If funded, will the	e operating budge	et need to be increased	to cover operating	expenses?					Yes	
8. If funded, will this	s project lower th	ne requesting Departme	ent's operating cost	s?					No	
. If funded, will this	s project require	ongoing assistance fron	n vendors at an add	litional expense to t	he Town which is NC	DT already budg	geted?		No	
0. If the project is I	NOT funded, will	current Town revenue	be reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?								No		
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								Yes		
3. Is this a request	in response to a	Court, Federal, or State	order?						No	
4. Is this a request	in response to a	documented public hea	olth or safety condit	ion?					No	
5. Is this a request	to improve or m	ake repairs to extend th	e useful life of a bu	ilding?					Yes	
6. Is this a request	to purchase app	aratus/equipment that i	is intended to be pe	ermanently installed	d at the location of it	s use?			No	
7. Is this a request	to repair or othe	rwise improve public pr	operty which is NC	T a building or infra	astructure?				No	
8. Will any other d	epartment be rea	quired to provide assista	ance in order to cor	nplete the project?					Yes	
.9. If funded, will th	nis project increas	se the operating expens	e for any other dep	artment?					Yes	
Project Cost:	\$14,694,500	How was the Project	Cost Determined:		Hired Consultant					
udget Impact:	May increase and	nual operating expenses	s by more than \$10	0,000				-		
Project Budg	et Elements	Project Budget	2019	2020	2021	2022	2023	2024	2	025
lanning/Feasibility		\$0								
esign/Engineering		\$1,494,100		\$1,494,100						
and/ROW Acquisiti	ion	\$0								
ite Preparation		\$0								
onstruction		\$11,156,600			\$11,156,600					
onstruction Manag	gement	\$111,100		\$111,100						
quipment		\$0								
urniture, Fixtures,	and Equipment	\$611,800			\$611,800					
echnology Hardwa	re/Software	\$0								
Other Expenses		\$1,320,900			\$1,320,900					
· · · · · · · · · · · · · · · · · · ·		\$14,694,500	\$0	\$1,605,200	\$13,089,300		\$0	\$0	\$0	

\$0

	Capital Project Request		
Project Title:	Renovate/Reconstruct Emery Grover Building at Highland Avenue Location	Fiscal Year:	2020
	Project Description and Considerations		
The needed sco	ties Master Plan indicated that the Emery Grover School Administration Building is in need of additional office and storage space ope of renovation includes reorganizing office and meeting spaces, making the building fully ADA accessible, removing remaining ystems, including: windows, HVAC, electrical and plumbing. These renovations would allow for a more efficient use of space, as ccessibility.	asbestos and lead paint, and rep	placing
purchase/reno present locatio	dy was conducted in August 2013 by DesignLAB Architects, which identified several options for the building, including: renovation vation of commercial property, and new construction on an alternate Town-owned parcel. This request is for the renovation of n. Based on a preliminary budget developed by DesignLAB, the \$9.7 million total cost (2013 \$) could be reduced by Community and related soft costs. The budget includes funds to temporarily re-locate staff to swing space during construction.	the existing Emery Grover buildi	0
	<u>ject Schedule:</u> y: FY14 (\$30,000) y Refresh: FY19 (see separate request)		
Design: FY20 (Project Funding	May '19 ATM) g Year: FY21 (May '20 ATM)		

Emery Grover Occupies Swing Space: FY21-FY22 (July '20 - Sept '22) Construction: FY21-FY22 New Building Opens: 9/2022 (FY23)

Project Budget:

The above referenced project budget excludes \$30,000 approved at May 2013 Annual Town Meeting for feasibility design, as well as a \$50,000 request in FY19 to 'refresh' the results of the feasibility study conducted in FY14 for the purpose of updating the cost estimates, examining temporary relocation requirements and identifying possible changes to the building code to accommodate the intended use. The feasibility 'refresh', which is presented as a separate capital request, could be funded from CPA funds. The "Other Expenses" category includes \$1,267,740 to occupy leased swing space for one year, while the building is being renovated, including moving expense, plus \$53,200 in legal expense. If, alternatively, the modernized Hillside School is used as swing space, the project budget could be reduced by the lease expense. (The project to modernize Hillside for use as swing space is presented separately.) All costs include 8 years of escalation to the mid-point of construction, using 6%/year (FY14-FY16) and 5.0%/year thereafter.

This project reflects a 5% cost escalator for fiscal years starting FY17, based on advice from the PPBC. It is likely that the final design budget will need to include 2% construction management expense (compared to 1%), but that adjustment is not reflected above, in order to preserve the integrity of the source information.

Parameters Addressed:

Project Costs Not Included: See Project Budget narrative above.

Permitting: As required by Town Boards.

Technology: The School Instructional Technology Department is in support of this request. The estimated project cost includes a full FF&E budget for this new facility, including technology. Building Improvements: The PPBC and Public Facilities Department support this request.

FTE: Estimate 1.0 Additional Custodian; 1.0 Additional Building Maintenance.

Operating Budget Increase: Improvements to HVAC, electical system may increase building maintenance expense by more than \$100,000/year. This placeholder estimate to be revised

oject Title: Renovate/Recon	t Title: Renovate/Reconstruct Emery Grover Building at Highland Avenue Location Supplemental Information										2020
Emery Grover Renovation Cost	Estimated, Based	on 2013 DesignLab	Study								
21,235 SF Building	Feasibilty	Construction	A/E	Constr Mgnt	Temporary	FF&E	Other	Total	Cost/SF	Less CPA	Net Cos
FY13 Project Cost (DesignLab)		7,339,550	982,906	73,120	834,000	402,500	35,000	9,667,076		8,350,000	1,317,
TOTAL	- 0%	7,339,550 76%	982,906 10%	73,120 1%	834,000 9%	402,500 4%	35,000 0%	9,667,076 100%	\$455	8,350,000	1,317,
.00% FY14 Cost Multiplier @ 6%	-	7,779,923	1,041,880	77,507	884,040	426,650	37,100	10,247,101	\$483	8,350,000	1,897,
.00% FY15 Cost Multiplier @ 6%	-	8,246,718	1,104,393	82,158	937,082	452,249	39,326	10,861,927	\$512	8,350,000	2,511
.00% FY16 Cost Multiplier @ 6%	-	8,741,521	1,170,657	87,087	993,307	479,384	41,686	11,513,642	\$542	8,350,000	3,163
.00% FY17 Cost Multiplier @ 5%	-	9,178,598	1,229,190	91,441	1,042,973	503,353	43,770	12,089,324	\$569	8,350,000	3,739
.00% FY18 Cost Multiplier @ 5%	-	9,637,527	1,290,649	96,014	1,095,121	528,521	45,958	12,693,791	\$598	8,350,000	4,343
.00% FY19 Cost Multiplier @ 5%	-	10,119,404	1,355,182	100,814	1,149,877	554,947	48,256	13,328,480	\$628	8,350,000	4,978
	-	10,625,374	1,422,941	105,855	1,207,371	582,694	50,669	13,994,904	\$659	8,350,000	5,644
.00% FY20 Cost Multiplier @ 5%											
.00% FY20 Cost Multiplier @ 5% .00% FY21 Cost Multiplier @ 5%		11,156,643	1,494,088	111,148	1,267,740	611,829	53,203	14,694,649	\$692	8,350,000	6,344
.00% FY20 Cost Multiplier @ 5%		11,156,643 11,156,643 11,156,600	1,494,088 1,494,088 1,494,100	<u>111,148</u> 111,148 111,100	<u>1,267,740</u> 1,267,740 1,267,700	611,829 611,829 611,800	<u>53,203</u> 53,203 53,200	14,694,649 14,694,649 14,694,500	<u>\$692</u> \$692 \$692	8,350,000 8,350,000 8,350,000	<u>6,344</u> 6,344 6,344

Square Footage

21,235

Note - costs escalated at rates shown abaove, to midpoint of construction (FY21). There are 2 construction years, FY21 and FY22. EG opens FY23 (July 2022). FY14 & FY19 are feasibility funding years; FY20 is SD/DD. CPA Funding is assumed at 67%.

Project Funding Schedule Pre-Design	FY14 30,000	FY20	FY21	FY14-21 Total
Engineering & Design Construction Total	<u>0</u>	1,494,100 <u>111,100</u> 1,605,200	<u>13,089,300</u> 13,089,300	1,494,100 <u>13,200,400</u> 14,694,500
		PI	us FY14 Design:	30,000

14,724,500

				Capital Proje	ct Request					
Project Title: S	chool Copiers						F	iscal Year:	2019	.9
Purpose:	cquisition	Cla	ssification: Eq	uipment	Sta	atus:	Amended Request fr	om the Prior C	IP	
Department:	leedham Public S	Schools	•		Su	pports:	Public Education			
Partners:	lone				Us	eful Life:	More than five (5) ye	ars		
				Parameters					Respor	nse
1. Are there any cost	s to bid, design,	construct, purchase, insta	all, implement, or o	therwise complete	e the project which ar	e NOT included is	s this request?		No	
2. Are there recomm	endations or cos	ts identified by other dep	partments which are	e NOT factored int	o the request?				No	
 Does this project r 	equire any perm	itting by any Town or Sta	te agency?						No	
4. If this request is fo	r Technology, ha	is the Department comm	unicated with ITC, a	and does ITC suppo	ort the request?				No	
5. If this request is fo	r Building Impro	vements, has the Departi	ment communicate	d with the Building	g Maintenance (BM)	division, and doe	s BM support the requ	iest?	No	
5. If funded, will addi	itional permaner	nt staff be required?					Total New FTE's:		No	
7. If funded, will the	operating budge	t need to be increased to	cover operating ex	penses?					No	
8. If funded, will this	project lower th	e requesting Department	's operating costs?						No	
9. If funded, will this	project require o	ongoing assistance from v	endors at an additi	onal expense to th	e Town which is NOT	already budgete	d?		No	
10. If the project is N	OT funded, will o	current Town revenue be	reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?										
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?										
13. Is this a request in response to a Court, Federal, or State order?										
L4. Is this a request i	n response to a c	locumented public health	n or safety condition	ı?					No	
15. Is this a request t	o improve or ma	ke repairs to extend the	useful life of a build	ing?					No	
16. Is this a request t	o purchase appa	ratus/equipment that is i	ntended to be pern	nanently installed	at the location of its ι	use?			No	
17. Is this a request t	o repair or other	wise improve public prop	perty which is NOT a	a building or infras	structure?				No	
18. Will any other de	partment be req	uired to provide assistan	ce in order to comp	lete the project?					No	
19. If funded, will thi	s project increas	e the operating expense t	for any other depar						No	
,	359,850	How was the Project C			ndustry References				·	
0 1		on the annual operating	expenses less than	\$5,000						
Project Budge	t Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025	5
Planning/Feasibility		\$0								
Design/Engineering		\$0								
and/ROW Acquisitic	on	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Manage	ement	\$0								
quipment		\$359,850	\$84,190	\$52,470	\$84,690	\$86,360	\$52,140			
urniture, Fixtures, a		\$0								
Fechnology Hardwar	e/Software	\$0								
Other Expenses		\$0								
TOTAL		\$359,850	\$84,190	\$52,470	\$84,690	\$86,360	\$52,140		50	

Capital Project Request

Project Title: School Copiers

Fiscal Year: 2019

Project Description and Considerations

In May of 2003, Town Meeting authorized \$60,000 in first year funding to establish a replacement cycle for school photocopiers. School photocopiers are located in all the schools and the administration building, and are used both by administrative and teaching staff. Teachers use the machines to reproduce classroom materials, including homework sheets, exams, teaching packets etc. Currently the School Department owns 47 copy machines. The FY19-FY23 request replaces the following numbers of copy machines.

Fiscal Year	#of Copy Machines Replaced
FY18 (Requested)	5
FY19 (Requested)	6
FY20 (Requested)	2
FY21 (Requested)	6
FY22 (Requested)	8
FY23 (Requested)	4

Copier replacement is planned on a cycle analysis, which projects when a copier should be replaced based on actual usage and the manufacturer's total estimated capacity. Copiers which are heavily used, are replaced more frequently than copiers that are lightly used. A seven-year maximum is assumed for most machines, even if they have not yet reached maximum copy allowances, given the additional operating expense associated with servicing and maintaining older equipment, as well as the difficulty in obtaining replacement parts. This analysis assumes that copiers are re-deployed around the District as needed, to match copier use with equipment capacity.

This request is revised from the prior CIP to reflect updated life cycle calculations (based on copier usage and current condition), which have shifted replacement priorities in some cases.

Capital Project Request

Project Title: School Copiers

Fiscal Year:

2019

Supplemental Information

				Purchase	%	of Useful Li	ife				Repla	acement Cost			Age at
Building	Location	Make	Model	Year	FY19	FY20	FY21	FY22	FY23	FY19	FY20	FY21	FY22	FY23	Repl'm't
Administration	SECOND FLOOR	XEROX	5755APT	12/11/12	82%	12%	25%	37%	50%	\$10,330		-	-	-	
Administration	Production Center	Konica	KM1025	9/1/15	103%	130%	27%	54%	82%	-	\$38,590	-	-	-	
Administration	FIRST FLOOR	Konica	KM 754 e	2/26/14	13%	16%	18%	20%	2%	-			\$7,090	-	
Administration	Production Center	XEROX refurb	D125	12/11/12	94%	9%	18%	26%	35%	\$36,750	-			-	
Broadmeadow	Teacher Lounge	Konica	KM 654 E	2/26/14	51%	59%	68%	8%	17%	-		\$14,570	-	-	
Broadmeadow	Teachers Room	Konica	KM 654 E	10/15/14	18%	21%	25%	29%	4%	-	-	-	\$7,090	-	
High School	Main Office	Konica	KM 364E	8/15/15	100%	106%	112%	6%	12%	-	-	\$6,750		-	
Broadmeadow	ETC	XEROX	3550	4/1/12	30%	34%	39%	4%	9%	-	-	\$2,250		-	
High School	Media	XEROX	3550	41112	12%	14%	15%	18%	18%	-				-	
High School	Athletics	Konica	KM 454E	8/23/16	31%	47%	62%	78%	94%	-	-		-	\$7,440	
High School	Math/Sci Rm 205	XEROX	5775PT	11/15/11	4%	9%	13%	17%	21%	-	-		-	-	
High School	World Lang 704	Konica	KM 654 e	2/26/14	44%	53%	61%	70%	27%	-			\$15,300	-	
High School	Health Office 607	XEROX	WC3550 X	12/11/12	8%	9%	10%	11%	12%	-	-		-	-	
High School	Bookkeeper's Office	XEROX	WC3550 X	12/11/12	51%	57%	63%	69%	76%	-	-		-	-	
High School	Music	Konica	KM 654 E	8/23/16	6%	9%	12%	14%	17%	-	-		-	-	
High School	PE	XEROX	WC3550 X	12/11/12	48%	50%	51%	53%	55%	+				+	
High School	College 503	Konica	KM 364 e	2/26/14	44%	52%	59%	67%	8%	-	-		\$2,360	-	
High School	Media Center	Konica	KM 454 e	2/26/14	19%	20%	22%	23%	25%	-	-		•		
High School	SPED Rm 801	XEROX	5740APT	12/11/12	113%	17%	34%	51%	68%	\$10,330	-		•	-	
High School	SS/English 703	Konica	KM 754 e	2/25/14	35%	39%	43%	47%	50%	-	-			\$16,070	
High School	Eng/SS	Konica	KM 754 e	9/1/15	45%	57%	68%	80%	11%	-	-		\$15,300	-	
High School	Grade Level	XEROX	WC5740APT	12/11/12	34%	36%	37%	39%	41%	•				•	
High School	Math/Sci	Konica	KM 754 e	9/1/15	51%	64%	77%	91%	104%	-				\$16,070	
Hillside	Main Office	XEROX	5755APT	12/11/12	36%	45%	46%	55%	65%	-				-	
Hillside	Downstairs	XEROX	5765PT	11/15/11	41%	18%	22%	27%	31%	-	-		•	-	
Hillside	Main Office	Konica	KM 754E	2/25/14	71%	94%	118%	141%	165%	-				-	
Mitchell	Back Door	Ricoh	MP8001	2008	1%	2%	3%	5%	6%	-	-	****	-	-	
Mitchel	5th grade wing	XEROX	\$765PT	11/15/11	33%	35%	37%	39%	41%	+				•	
Mitchell	Front Office	Konica	KM654E	10/15/14	52%	62%	73%	83%	10%	-	-		\$11,960	-	
Newman	Front Office	XEROX	5775PT	12/11/12	69%	81%	12%	23%	35%	-	\$13,880	-	-	-	

						Сар	ital Pro	<mark>ject Req</mark>	uest						
Project Title:	School Cop	iers											Fiscal Year	•	2019
Newman	Hall Outside Office	Konica	KM 654 E	8/23/16	15%	23%	30%	38%	45%	-	-			-	
Newman	Hallway near caf	XEROX	5765PT	11/15/11	2%	4%	6%	8%	10%	-	-		-	-	
Newman	Down Stairs Hall	XEROX	5755APT	12/11/12	79%	11%	21%	32%	42%	\$10,330	-	-	-	-	7
Newman	Main Office	XEROX	3550X	12/11/12	22%	25%	28%	3%	7%	-	-	\$2,360	-	-	9
Pollard	8th Grade Hallway	konica	KM 654 e	9/1/15	26%	33%	41%	48%	55%	-	-	-	-	\$12,560	8
Pollard	teacher's Lounge	XEROX	5765PT	11/15/11	2%	4%	6%	8%	10%	-	-	-	-	-	
Pollard	Main Office	Konica	KM 754E	2/25/14	58%	67%	76%	9%	18%	-	-	\$15,300	\$0	-	7
Pollard	7th Grade work area	Konica	KM654E	10/15/14	40%	47%	55%	62%	7%	-	-		\$11,960	-	8
Pollard	modulars	XEROX	5740APT	12/11/12	2%	3%	5%	6%	8%	-	-		-	-	
Pollard	Media Coin -OP	XEROX	3550	4/1/12	14%	16%	18%	20%	22%	-	+		•	-	
High Rock	Room 207	Konica	KM 654E	8/23/16	11%	17%	22%	28%	33%	-	-		-	-	
High Rock	Main Office	Konica	KM 754E	10/15/14	33%	39%	45%	51%	6%	-	-		\$15,300	-	8
Eliot Elementary	Main Office	Konica	KM754 E	2/25/14	24%	28%	32%	36%	40%	-	-		-	-	
Eliot Elementary	Room 151	Xerox	5765PT	11/15/11	44%	6%	12%	18%	24%	\$10,330	-	-	-	-	8
Eliot Elementary	Room 210	Xerox	5135PT	11/15/11	114%	18%	37%	55%	74%	\$6,120	-	-	-	-	8
Kase-Cong. Church	Main Office	Canon	IR2230	@11 05	33%	35%	36%	37%	38%	+				+	
Administration	Color Copier Produc	Xerox	Color 560	2/25/14	57%	67%	77%	10%	20%	-	-	\$43,460	-	-	7
Totals										\$84,190	\$52,470	\$84,690	\$86,360	\$52,140	

				Capital Projec	t Request					
Project Title:	School Departn	nent Technology Re	quest					Fiscal Year:	2019	
Purpose:	Acquisition		Classification: Te	chnology	Sta	atus:	Amended Request f	rom the Prior Cl	P	
Department:	Needham Public S	Schools			Su	pports:	Public Education			
Partners:					Us	eful Life:	More than five (5) y	ears		
-				Parameters					<u>Response</u>	e
1. Are there any cos	ts to bid, design,	construct, purchase, in	stall, implement, or ot	therwise complete	the project which ar	e NOT included i	s this request?		No	
2. Are there recomm	nendations or cos	ts identified by other o	departments which are	e NOT factored into	the request?				No	
		itting by any Town or S	• /						No	
4. If this request is f	or Technology, ha	s the Department com	nmunicated with ITC, a	nd does ITC suppo	rt the request?				Yes	
5. If this request is f	or Building Impro	vements, has the Depa	irtment communicated	d with the Building	Maintenance (BM)	division, and doe	s BM support the rec	quest?	No	
6. If funded, will add	ditional permaner	it staff be required?					Total New FTE's:		No	
7. If funded, will the	operating budge	t need to be increased	to cover operating ex	penses?					No	
		e requesting Departme							No	
			n vendors at an additio	onal expense to the	e Town which is NOT	already budgete	ed?		No	
		current Town revenue							No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?								No		
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									No	
13. Is this a request	in response to a O	Court, Federal, or State	order?						No	
			alth or safety condition						No	
			ne useful life of a build	-					No	
			is intended to be perm			use?			No	
			roperty which is NOT a		ructure?				No	
			ance in order to comp						No	
			se for any other depart						No	
	\$2,354,225	How was the Project			-House Estimate					
			ng expenses less than a							
Project Budg		Project Budget	2019	2020	2021	2022	2023	2024	2025	
Planning/Feasibility		\$0								
Design/Engineering		\$0								
and/ROW Acquisiti	ion	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Manag	gement	\$0								
quipment		\$0								
Furniture, Fixtures, a		\$0	40	A-	4	4	4			
Fechnology Hardwa	re/Software	\$2,354,225	\$303,600	\$566,100	\$556,325	\$500,200	\$428,000			
Other Expenses		\$0								_
TOTAL		\$2,354,225	\$303,600	\$566,100	\$556,325	\$500,200	\$428,000	Ś	50	Ś

\$0

Capital Project Request

Project Title: School Department Technology Request

Fiscal Year:

2019

Project Description and Considerations

The FY19-23 CIP request funds the purchase of School Department technology, including computers, printers, interactive white boards (IWBs), specialized instructional labs, projectors, video displays, and security cameras. The request also includes funding for school technology infrastructure, including servers, network hardware, wireless infrastructure data cabling and access points. This request reflects the decision in FY17 to move Digital Learning Devices (DLDs) and staff laptops to the operating budget, as well the new classroom techology standard. A chart summarizing the five-year request is included on the next page.

The FY19-23 Capital Improvement Plan (CIP) for school technology totals \$2,354,225 and includes \$1,789,225 for school hardware replacement and \$565,000 or school technology infrastructure. The hardware request represents the replacement of school technology with a life cycle of five years or more. (In FY17, funding for devices with a lifespan of less than five years was shifted to the Operating Budget. These devices included Digital Learning Devices (DLDs) such as iPads and Chromebooks, and laptops.)

The \$1,789,225 hardware component includes the following: \$849,200 for specialized lab replacement (including \$92,000 to replace the NHS Graphic Arts Lab equipment); \$510,000 for interactive whiteboard replacement (including \$90,000 for IWBs in the Kindergarten classrooms, starting FY20);\$298,500 for desktop computers replacemen;\$87,525 for printer replacement; \$24,000 for video displays; and \$20,000 to replace the NHS security camera system in FY22. Desktop computers have an assumed life of five years, the replacement cycle for which now includes administrative support staff desktops, specialized special education classroom desktops, science center support staff desktops, and specialized preschool student computers. Whiteboards are replaced after six years, although the industry-recommended replacement cycle is five years. (Past experience indicates that this is a reasonable assumption and will require approximately 30 IWB/year on average. The average cost of replacing an IWB is \$5,000. Newer technology associated with the replacement IWBs may necessitate additional electrical outlets that would have to be installed by the Town's electrician. Any additional costs to the town are not budgeted in this request.) Specialized labs are replaced as needed, based on the age and condition of the equipment contained theein. The five-year plan includes the following labs: computer labs at Pollard in FY19-FY23 (@\$8,100/year in FY19 & 20, and \$40,500 per year in FY23 and FY23), computer lab replacement at Mitchell and Newman in FY21 (\$81,000, or \$40,500/lab), and computer lab replacement at Broadmeadow, Eliot, Hillside and High Rock in FY23 (\$162,000, or \$40,500/lab.) At NHS, six science labs will be replaced in FY20 (\$54,000, or \$40,500/lab), a computer lab and two writing labs will be replaced in FY21 (\$121,500, or \$40,500/lab), two art labs/classrooms and a music lab will be replaced in FY22 (\$121,500, or \$40,500/lab), the graphic arts labs will be updated in FY19-20 at 46,000 per year (or \$92,000), and the NHS TV Studi

An additional \$565,000 will be allocated to infrastructure upgrades, including servers, network hardware, wireless access points and cabling.

This five year capital request is largely unchanged from the prior year submission, except for the addition of the FY23 request and a \$52,700 increase in the cost of lab replacement at Pollard and NHS. There are no changes to the infrastructure request in FY19-22. A summary of changes from the prior year is presented on the next page.

The FY19 request is for \$303,600 and and represents a \$11,600 increase over the FY19 projection included in the FY18-22 CIP. The \$303,600 request increase consists of \$190,600 in hardware replacement and \$113,000 in infrastracture improvements. The hardware replacement budget of \$227,000 increases \$11,600 from the prior year and reflects the additional cost of computer lab replacement at Pollard and NHS.

Capital Project Request

Project Title: School Department Technology Request Fiscal Year:

2019

Supplemental	Information

Summary	FY19	FY19	FY19	FY20	FY20	FY20	FY21	FY21	FY21	FY22	FY22	FY22	FY23	FY19-23
Hardware	Prior	New	Change	Prior	New	Change	Prior	New	Change	Prior	New	Change	New	Total
			_			_			_			_		
Classroom Digital Learning Devices	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shared Cart Digital Learning Devices	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laptops	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Admin iPads	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teacher iPads	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Student iPads	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laptop Cart	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab	40,500	54,100	13,600	40,500	54,100	13,600	202,500	202,500	-	121,500	162,000	40,500	202,500	675,200
Science Lab	-	-	-	54,000	54,000	-	-	-	-	-	-	-	-	54,000
Destop Computers	22,500	22,500	-	123,000	123,000	-	108,000	108,000	-	22,500	22,500	-	22,500	298,500
Security Camera System	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Graphics Art Labs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TV Studio	30,000	30,000	-	30,000	30,000	-	30,000	30,000	-	30,000	30,000	-	-	120,000
Printers	-	-	-	22,000	22,000	-	22,825	22,825	-	42,700	42,700	-	-	87,525
IWB - Gr 1-12	80,000	60,000	(20,000)	80,000	80,000	-	80,000	80,000	-	110,000	110,000	-	90,000	420,000
IWB - Kindergarten	-	-	-	90,000	90,000	-	-	-	-	-	-	-	-	90,000
Projectors	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Video Displays (Gym, Café)	6,000	24,000	18,000	13,000	-	(13,000)	-	-	-	-	-	-	-	24,000
Security Cameras										20,000	20,000			20,000
Subtotal	179,000	190,600	11,600	452,500	453,100	600	443,325	443,325	-	346,700	387,200	40,500	315,000	1,789,225
	-	-	-	-	-	-	-	-	-	-	-	-	-	
Summary	FY19	FY19	FY19	FY20	FY20	FY20	FY21	FY21	FY21	FY22	FY22	FY22	FY23	FY19-23
Infrastruccture	Prior	New	Change	Prior	New	Change	Prior	New	Change	Prior	New	Change	New	Total
Servers	30,000	30,000	-	30,000	30,000	-	30,000	30,000	-	30,000	30,000	-	30,000	150,000
Network Hardware	20,000	20,000	-	20,000	20,000	-	20,000	20,000	-	20,000	20,000	-	20,000	100,000
Wireless Infra. Data Cabling	5,000	5,000	-	5,000	5,000	-	5,000	5,000	-	5,000	5,000	-	5,000	25,000
Wireless Infra. Access Points	58,000	58,000		58,000	58,000		58,000	58,000		58,000	58,000		58,000	290,000
Subtotal	113,000	113,000	-	113,000	113,000	-	113,000	113,000	-	113,000	113,000	-	113,000	565,000
		,												
Summary	FY19	FY19	FY19	FY20	FY20	FY20	FY21	FY21	FY21	FY22	FY22	FY22	FY23	FY19-23
Grand Total	Prior	New	Change	Prior	New	Change	Prior	New	Change	Prior	New	Change	New	Total
Hardware	179,000	190,600	11,600	452,500	453,100	600	443,325	443,325	-	346,700	387,200	40,500	315,000	1,789,225
Infrastructure	113,000	113,000	-	113,000	113,000	-	113,000	113,000	-	113,000	113,000	-	113,000	565,000
Grand Total	292,000	303,600	11,600	565,500	566,100	600	556,325	556,325		459,700	500,200	40,500	428,000	2,354,225

			Capital Proj	ect Request				
Project Title: Scl	nool Document Management S	ystem					Fiscal Year:	2020
Purpose: Co	nstruction	Classification: B	uilding	St	atus:	Amended Request	from the Prior C	P
Department: Ne	edham Public Schools			Su	pports:	Public Education		
Partners:				Us	eful Life:	More than five (5)	years	
			Parameters					<u>Response</u>
•	o bid, design, construct, purchase,				e NOT included	is this request?		No
2. Are there recommer	dations or costs identified by othe	r departments which a	re NOT factored in	to the request?				No
	uire any permitting by any Town o							No
4. If this request is for	Technology, has the Department co	ommunicated with ITC,	and does ITC supp	ort the request?				Yes
•	Building Improvements, has the De	partment communicat	ed with the Buildin	g Maintenance (BM)	division, and doe	es BM support the re	equest?	No
	onal permanent staff be required?					Total New FTE's:		No
7. If funded, will the op	erating budget need to be increase	ed to cover operating e	xpenses?					No
	oject lower the requesting Departr							No
	oject require ongoing assistance fr		tional expense to t	he Town which is NO1	already budget	ed?		No
	f funded, will current Town revenu							No
-	ng or annual licensing required that							No
	which an Initial Eligibility Project A		with the Communi	ty Preservation Comm	ittee (CPC)?			No
	esponse to a Court, Federal, or Sta							No
	esponse to a documented public h							No
	improve or make repairs to extend		-					No
	purchase apparatus/equipment that				use?			No
	repair or otherwise improve public							No
	rtment be required to provide assi							No
	project increase the operating expe	, ,					T	No
		ect Cost Determined:		In-House Estimate				
U I	gligible impact on the annual opera						1	
Project Budget		2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility	\$(
Design/Engineering	\$0							
Land/ROW Acquisition	\$0							
Site Preparation	\$0							
Construction	\$0							
Construction Managen								
Equipment	\$(
Furniture, Fixtures, and			600.000					
Technology Hardware/			\$36,100					
Other Expenses	\$140,800		\$140,800	4 -				-
TOTAL	\$176,900) \$0	\$176,900	\$0	\$0	\$0	Ş	50

\$0

Capital Project Request

Project Title: School Document Management System

Fiscal Year:

2020

Project Description and Considerations

This is a request to purchase and implement a document management system for the efficient storage and retrieval of school documents, including student files, financial and administrative information. The acquisition cost also includes the cost to covert existing paper-based records to electronic format.

The document management system provides electronic storage and retrieval, automated document indexing and networked access for group workflow and email capability. The acquisition cost is based on a 2015 purchase estimate of \$32,000 and \$125,000 cost of document conversion, escalated at a cost of 3%/year. The document conversion cost is based on approximately 856 cubic feet of documents (Human Resources, Special Education) and is phased over two years.

Project timing based on planned renovation/reconstruction of Emery Grover School Administration Building in FY21-22, and is timed to precede the relocation of staff to swing space in FY21 during construction. The project is revised to accelerate the timing by one year in order to address document management before Administration moves to swing space.

This project is revised from the prior submission, which had included phased funding in FY19 and FY20. This request is for full funding in FY20. Project costs have adjusted slightly as a result of eliminating the phasing.

Parameters Addressed:

Technology: The School Instructional Technology Department is in support of this request.

Capital Project Request

Project Title: School Docu

School Document Management System

Fiscal Year:

2020

Supplemental Information

Document Management Purchase & Document Conversion Expense

Emery Grover	# Cabinets	# Cabinets	Cubic	Calculated	Calculated	Box Pickup	Scanning	Total	
Active Files	Small (1)	Large (2)	Feet	# Boxes	Pages	Service (3)	Service	Cost	
Human Resources	3	-	312	260	689,000	650	44,785	45,435	
Financial Operations	0	0	-	-	-	-	-	-	
Payroll	0	0	-	-	-	-	-	-	
Food Service	0	0	-	-	-	-	-	-	
Special Education	24	11	544	453	1,201,333	1,133	78,087	79,220	
Subtotal	27	20	856	713	1,890,333	1,783	122,872	124,655	
Other Files									
Financial Operations	0	<u>o</u>	-	-	-	-	-	-	Assume major storage is IV
Subtotal	0		-	-	-	-	-	-	
	-	-							
Grand total	27	20	856	713	1,890,333	1,783	122,872	124,655	
]	125,000	
(1) Small: 1'W x 4'H x 2'D	8	Cubic Feet							
(2) Small: 4'W x 4'H x 2'D	32	Cubic Feet							
(3) Pickup estimate is \$2.5									
(3) Estimated cost of prep	ping, scann	ing, indexing i	is \$0.05 - \$0.00	B/page. Estima	te based on \$0	.065/page mid	-rate.		
Conversion									
1 Small Bankers Box =		Cubic Feet							
1 Small Bankers Box =	2650	Pages							
Document Management Purchase & Installation				Software	Document	Total			
Purchase & Installation				Acquisition	Conversion	Cost			
2015 Acquisition Cost	FY16	Doc Star		32,000	125,000	157,000			
x Escalation	FY17	3%		33,000	128,800	161,800			
x Escalation x Escalation	FY17 FY18	3% 3%		33,000 34,000	128,800 132,700	161,800 166,700			
	FY18 FY19								
x Escalation	FY18	3%		34,000	132,700	166,700	Conversion Co	ompleted	
x Escalation x Escalation	FY18 FY19	3% 3%		34,000 35,000	132,700 136,700	166,700 171,700 176,900	Conversion Co Prior to EG Re		
x Escalation x Escalation	FY18 FY19	3% 3%		34,000 35,000	132,700 136,700	166,700 171,700 176,900			

				Capital Projec	t Request					
Project Title:	School New and	d Replacement Furnitu	ire					Fiscal Year:	2019	9
urpose:	Acquisition	Cla	ssification: Eq	uipment	St	atus:	Amended Request f	rom the Prior C	IP	
Department:	Needham Public			-	Su	ipports:	Public Education			
Partners:					Us	seful Life:				
				Parameters					Respon	nse
L. Are there any co	osts to bid, design,	construct, purchase, insta	all, implement, or o	therwise complete	the project which ar	re NOT included	is this request?		No	
2. Are there recom	nmendations or cos	ts identified by other dep	partments which are	e NOT factored into	the request?				No	
3. Does this projec	t require any perm	itting by any Town or Sta	te agency?						No	
4. If this request is	for Technology, ha	as the Department comm	unicated with ITC, a	nd does ITC suppor	t the request?				No	
5. If this request is	for Building Impro	vements, has the Departr	ment communicate	d with the Building	Maintenance (BM)	division, and doe	es BM support the rec	juest?	No	
5. If funded, will a	dditional permaner	nt staff be required?					Total New FTE's:	-	No	
7. If funded, will th	ne operating budge	t need to be increased to	cover operating ex	penses?					No	
		e requesting Department							No	
		ongoing assistance from v		onal expense to the	Town which is NO	already budget	ed?		No	
LO. If the project is	s NOT funded, will o	current Town revenue be	reduced?						No	
1. Is specialized t	raining or annual li	censing required that the	Town will need to p	bay in order to use	the asset?				No	
.2. Is this a projec	t for which an Initia	al Eligibility Project Applic	ation can be filed w	ith the Community	Preservation Comm	nittee (CPC)?			No	
3. Is this a reques	st in response to a (Court, Federal, or State or	der?						No	
4. Is this a reques	st in response to a o	ocumented public health	n or safety condition	۱?					No	
L5. Is this a reques	st to improve or ma	ke repairs to extend the	useful life of a build	ing?					No	
L6. Is this a reques	st to purchase appa	ratus/equipment that is i	ntended to be pern	nanently installed a	t the location of its	use?			No	
L7. Is this a reques	st to repair or other	wise improve public prop	perty which is NOT a	a building or infrast	ructure?				No	
18. Will any other	department be req	uired to provide assistan	ce in order to comp	lete the project?					No	
L9. If funded, will	this project increas	e the operating expense f	or any other depar	tment?					No	
Project Cost:	\$180,500	How was the Project C	ost Determined:	In	dustry References					
Budget Impact:		on the annual operating	expenses less than	\$5,000						
	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025	5
Planning/Feasibilit	Ξ y	\$0								
Design/Engineerin	g	\$0								
and/ROW Acquis	ition	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures		\$180,500	\$60,500	\$45,000	\$25,000	\$25,000	\$25,000			
Technology Hardw	vare/Software	\$0								
Other Expenses		\$0								
TOTAL		\$180,500	\$60,500	\$45,000	\$25,000	\$25,000	\$25,000		\$0	

				Capital Pro	oject Request			
roject Title:	School New and	l Replacement Fur	niture				Fiscal Year:	2019
				Project Description	n and Consideratior	<u>s</u>		
This request conti decades of heavy		ment cycle for schoo	l furniture in poor a	nd fair at the Schoc	ls. Furniture at the	Pollard Middle School is 25-30+ years	s old and in a state of di	srepair after
FY23 funding requ \$30,500 will be us sample photo belo	uest will continue ed to reface the o ow. An additiona	e with the replaceme cabinets in three Pol I \$30,000 is requeste	nt of furniture in fai ard science classroo d in FY19 to purcha	r condition at Polla oms and to install n se classroom furnit	rd and in addition, t ew counters in four ure for Needham Hi	(15, all furniture in 'poor' condition w nese funds will be used for new class science classrooms. The poor condit gh School. In FY20, \$20,000 is budget or classroom furniture as necessary ir	room furniture as neede ion of these cabinets is red to complete the rep	ed. In FY19 depicted in the
·		or year to add an FY2 ent schedule is depi		and to direct replace	ement funding to Po	llard in FY19 and FY20.		
Funding Plan Pollard New Classrooms	Request FY19 \$30,500.00 \$30,000.00 \$60,500.00	Request FY20 \$20,000.00 \$25,000.00 \$45,000.00	Request FY21 \$0.00 \$25,000.00 \$25,000.00	Request FY22 \$0.00 \$25,000.00 \$25,000.00	Request FY23 \$0.00 \$25,000.00 \$25,000.00	TOTAL \$50,500.00 \$130,000.00 \$180,500.00		

				Capital Project	t Request					
Project Title:	School Phone Sys	stem Replacement						Fiscal Year:	201	19
Purpose:	Acquisition	C	lassification: Eq	uipment	St	atus:	New Request			
Department:	Needham Public Sc	hools			Si	upports:	Public Education			
Partners:					U	seful Life:				
				Parameters					Respo	onse
L. Are there any co	osts to bid, design, co	onstruct, purchase, ins	stall, implement, or o	therwise complete	the project which a	re NOT includ	ed is this request?		No	
2. Are there recom	nmendations or costs	identified by other de	epartments which are	e NOT factored into	o the request?				No	
3. Does this projec	t require any permit	ting by any Town or S	tate agency?						No	
I. If this request is	for Technology, has	the Department com	municated with ITC, a	and does ITC suppo	rt the request?				Yes	
. If this request is	for Building Improve	ements, has the Depar	rtment communicate	d with the Building	Maintenance (BM)	division, and	does BM support the	request?	Yes	
	dditional permanent						Total New FTE's:		No	
'. If funded, will th	ne operating budget	need to be increased t	to cover operating ex	penses?			•		No	
3. If funded, will th	nis project lower the	requesting Departme	nt's operating costs?						Yes	
. If funded, will th	nis project require or	going assistance from	vendors at an additi	onal expense to the	e Town which is NO	r already bud	geted?		No	
		rrent Town revenue b		•			5		Yes	
L1. Is specialized t	raining or annual lice	nsing required that th	e Town will need to	pay in order to use	the asset?				No	
		Eligibility Project Appl				nittee (CPC)?			No	
L3. Is this a reques	st in response to a Co	ourt, Federal, or State	order?	-					No	
L4. Is this a reques	st in response to a do	cumented public heal	Ith or safety conditio	n?					No	
		e repairs to extend the							No	
16. Is this a reques	st to purchase appara	atus/equipment that is	s intended to be pern	nanently installed a	t the location of its	use?			No	
17. Is this a reques	st to repair or otherw	vise improve public pro	operty which is NOT	a building or infrast	ructure?				No	
		ired to provide assista							Yes	
19. If funded, will t	this project increase	the operating expense	e for any other depar	tment?					No	
Project Cost:	\$319,000	How was the Project			dustry References				·•	
Budget Impact:	The project should	reduce the operating	expenses							
Project Bud	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024	202	25
lanning/Feasibilit	Ξ γ	\$0								
Design/Engineerin	g	\$0								
and/ROW Acquisi	ition	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Man	agement	\$0								
quipment		\$0								
- Furniture, Fixtures	, and Equipment	\$319,000	\$88,000	\$114,000	\$117,000					
echnology Hardw		\$0								
Other Expenses		\$0								
Julier Expenses		7 -								

\$0

Capital Project Request

Project Title: School Phone System Replacement

Fiscal Year:

2019

Project Description and Considerations

The telephone system currently in use by the School Department consists of 8 separate phone systems of varying ages from 5 to over 15 year old (estimated.) The systems employ manufacturer discontinued equipment, are unstable and are in constant need of repair. The phone systems in three buildings - Hillside, Mitchell and Emery Grover - have failed, leaving the buildings with no phone access. All systems require frequent repairs, which can only be done by a contract technician via a technical service maintenance appointment. The existing system, in addition to being old and unstable, runs on antiquated PBX technology that uses traditional Verizon POTS (copper) lines for external calls and Centrex to connect internally within a network of Town departments. This type of system supports a limited number of concurrent external connections per building and a limited number of concurrent Centrex connections per building; when concurrent lines are maximized within a building, users receive a busy signal until a line becomes available. Accessibility of the current voicemail system also is a concern particularly for teachers who transition to different classrooms and locations throughout the day; their voicemail is only available from their "home" location. The monthly invoice reconciliations are time consuming for Public Facilities staff and the level of customer service through Verizon is very poor. Finally, the Centrex system is expensive to operate - in FY16, over \$78,000 was spent on service and maintenance calls, including \$55,000 for service and \$23,000 for maintenance.

This request would replace the antiquated PBX system with a new phone system that would combine all of the buildings into a unified IP-based phone system. The new system would utilize our fiber network and pooled SIP trunks to reduce overall cost while maintaining a secure, robust and reliable phone system. It would allow for 'tiered' user licenses that are customized to roles and responsibilities. Administrative staff would be able to update accounts without the assistance of an outside vendor during a maintenance call. The system would have all the features of a modern phone system, such as voicemail-to-email, callerID, presence, conference calling, unified contacts, 'do not disturb' and softphones. The School Department would manage the new technology-based system, which would no longer be maintained by the Public Facilities Department as a 'utility.' Finally, the Town's annual operational expense associated with maintaining the system would diminish significantly. Preliminary estimates suggest that the associated operating expense could be reduced from approximately \$78,000 to \$39,000 per year.

This proposal is to purchase a new, unified phone system for all school buildings, according to a phased implementation plan. In Year 1 (FY19), the system would be implemented for School Administration, and the Mitchell and High Rock schools. In Year 2, the Williams, NHS and Eliot School systems would be installed. In Year 3, the system at Broadmeadow, Pollard and Newman would be replaced. During the phased roll-out, Public Facilities would continue to manage and maintain the existing systems. Upon full installation, the Verizon and CTI service contracts with the Town could be terminated and the Town's operating budget reduced. A chart summarizing the projected capital and operating impact of the new system is shown below, derived from industry references.

Capital Project Request

Project Title: School Phone System Replacement

Supplemental Information

Mitchell High Bock		\$27,000 \$24,000			\$27,000 \$24,000
High Rock		\$24,000	474 000		\$24,000
NHS			\$71,000		\$71,000
Hillside / Willia	ams		\$20,000		\$20,000
Eliot			\$23,000		\$23,000
Broadmeadow	1			\$30,000	\$30,000
Pollard				\$46,000	\$46,000
Newman				\$41,000	\$41,000
Capital Plan		\$88,000	\$114,000	\$117,000	\$319,000

Annual Software Assurance Expense (SWA) (Operating Expense)*

<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>
EG		\$3,000	\$3,000	\$3,000
Mitchell		\$2,000	\$2,000	\$2,000
High Rock		\$2,000	\$2,000	\$2,000
NHS			\$7,000	\$7,000
Hillside / Williams			\$2,000	\$2,000
Eliot			\$2,000	\$2,000
Broadmeadow				\$3,000
Pollard				\$4,000
Newman				\$4,000
Total SWA Expense		\$7,000	\$18,000	\$29,000

to be offset by decreasing Verizon & CTI expense carried on Town Budget (FY16 est \$78,151)

Fiscal Year:

2019

				Capital Proj	ect Request					
Project Title: Su	ustain the Hillsi	de School as Swing	Space for Future To	own Use			F	iscal Year:	20	021
Purpose: Co	onstruction	CI	assification: Bu	ilding	5	Status:	Same Request from	the Prior CIP		
Department: No	eedham Public So	hools			<u>c</u>	Supports:	Public Education			
Partners:					ι	Jseful Life:	More than eighteen	(18) years		
				Parameters					<u>Resp</u>	<u>ponse</u>
Are there any costs	to bid, design, co	onstruct, purchase, inst	all, implement, or ot	herwise complet	te the project which a	are NOT included	l is this request?		Yes	
. Are there recomme	endations or cost	s identified by other de	partments which are	e NOT factored ir	nto the request?				No	
		ting by any Town or St							Yes	
. If this request is for	Technology, has	the Department comm	nunicated with ITC, a	nd does ITC supp	port the request?				Yes	
. If this request is for	Building Improv	ements, has the Depart	ment communicated	d with the Buildir	ng Maintenance (BM)	division, and do	es BM support the req	uest?	Yes	
. If funded, will addit	ional permanent	staff be required?					Total New FTE's:		No	
		need to be increased to		penses?					Yes	
8. If funded, will this p	project lower the	requesting Departmen	t's operating costs?						No	
. If funded, will this p	project require or	ngoing assistance from	vendors at an addition	onal expense to t	he Town which is NC	DT already budge	ted?		No	
		irrent Town revenue b							No	
1. Is specialized train	ing or annual lice	ensing required that the	e Town will need to p	bay in order to us	se the asset?				No	
2. Is this a project fo	r which an Initial	Eligibility Project Appli	cation can be filed w	ith the Communi	ity Preservation Com	mittee (CPC)?			No	
3. Is this a request in	response to a Co	ourt, Federal, or State o	order?						No	
4. Is this a request in	response to a do	ocumented public healt	h or safety conditior	1?					No	
5. Is this a request to	improve or mak	e repairs to extend the	useful life of a build	ing?					Yes	
		atus/equipment that is				s use?			No	
		vise improve public pro							No	
.8. Will any other dep	artment be requ	ired to provide assista	nce in order to comp	lete the project?					Yes	
19. If funded, will this	project increase	the operating expense	for any other depart	tment?					Yes	
•	8,960,500	How was the Project			Hired Consultant					
Budget Impact: M	ay increase annu	al operating expenses	oy more than \$100,0	00						
Project Budget	Elements	Project Budget	2019	2020	2021	2022	2023	2024	20	025
lanning/Feasibility		\$100,000			\$100,000					
esign/Engineering		\$2,607,400				\$2,607,40	0			
and/ROW Acquisitio	n	\$0								
ite Preparation		\$0								
onstruction		\$13,969,600					\$13,969,600			
onstruction Manage	ment	\$651,900					\$651,900			
quipment		\$0								
urniture, Fixtures, an	d Equipment	\$1,631,600					\$1,631,600			
echnology Hardware	/Software	\$0								
Other Expenses		\$0								

\$0

Capital Project Request

Project Title: Sustain the Hillside School as Swing Space for Future Town Use

Project Description and Considerations

Constructed in 1960, the Hillside Elementary School has undergone both addition and renovation (with modulars) over the past 40 years, but is in need of total replacement to address building deficiencies and modernize the learning environment. Several options for renovating/reconstructing this facility are presented in this Capital Improvement Program request.

This is a project to modernize the existing Hillside School for use as swing space for other school and Town projects, after the new Hillside school opens in September 2020 (FY21.) A potential schedule for use of this swing space is: Emery Grover Renovation (FY21-FY22 - prior to modernizing the building), Mitchell Renovation (FY27-FY28), Pollard Renovation (FY29-FY30.) This schedule assumes that modernization will take up to two years to complete, and that relocating the Emery Grover population to the Hillside school is preferable to leasing office space for use during that construction project.

This cost and scope of this project is based on the "Option A" 'base repair project estimate developed by Dore & Whittier Architects in 2014 and renovates the existing Hillside School to update all major building systems to comply with current codes and reulgations. (It is the renovation option best described as the 'base repair' scenario for comparative purposes.) The scope of this option does NOT include adding modular classrooms to accommodate the Mitchell School population or a full grade of Pollard students. The Feasibility Study scope should update the above preliminary cost estimate to include the needed modular component, as well as a comparative analsis of the relative cost effectiveness of an alternate project to demolish the school and create modular swing space on this site.

This project is revised from prior years to reflect a July 2024 completion date and a 5% inflation escalator for fiscal years beginning FY17.

Preliminary Project Schedule:

Feasibiilty Design: FY21 Design: FY22 Override Ballot Question: FY22 Site Construction: FY23-FY24 Modernized Hillside Opens: July, 2024

Parameters Addressed:

Project Costs Not Included: See Project Budget narrative above.

Permitting: As required by Town Boards.

Technology: The School Instructional Technology Department is in support of this request. The estimated project cost includes an FF&E budget for this new facility, including classroom technology.

Building Improvements: The PPBC and Public Facilities Department support this request.

Operating Budget Increase: Improvements to HVAC, electical system may increase building maintenance expense by more than \$100,000/year. This placeholder estimate to be revised during design process.

Fiscal Year: 2021

Capital Project Request

Project Title: Sustain the Hillside School as Swing Space for Future Town Use

Fiscal Year:

2021

Supplemental Information

Hillside School Modernization, Based on 2014 Dore & Whittier PreFeasibility Study Option A, Repair Hillside School for 430 Students Scheduled opening: July 2024 (FY25)

	45,005 SF Building	Feasibilty	Construction*	A/E	FF&E	Constr Mgnt	Total	Cost/SF
	FY14 Project Cost (D&W)	-	8,835,814	1,649,200	1,032,000	412,300	11,929,314	
	TOTAL	- 0%	8,835,814 74%	1,649,200 14%	1,032,000 9%	412,300 3%	11,929,314 100%	\$265
6.00%	FY15 Cost Multiplier @ 6%	-	9,365,963	1,748,152	1,093,920	437,038	12,645,073	\$281
6.00%	FY16 Cost Multiplier @ 6%	-	9,927,921	1,853,041	1,159,555	463,260	13,403,777	\$298
5.00%	FY17 Cost Multiplier @ 3.8%	-	10,424,317	1,945,693	1,217,533	486,423	14,073,966	\$313
5.00%	FY18 Cost Multiplier @ 3.8%	-	10,945,532	2,042,978	1,278,410	510,744	14,777,664	\$328
5.00%	FY19 Cost Multiplier @ 3.8%	-	11,492,809	2,145,127	1,342,330	536,282	15,516,548	\$345
5.00%	FY20 Cost Multiplier @ 3.8%	-	12,067,450	2,252,383	1,409,447	563,096	16,292,375	\$362
5.00%	FY21 Cost Multiplier @ 3.8%	100,000	12,670,822	2,365,002	1,479,919	591,251	17,206,994	\$382
5.00%	FY22 Cost Multiplier @ 3.8%	100,000	13,304,363	2,483,252	1,553,915	620,813	18,062,343	\$401
5.00%	FY23 Cost Multiplier @ 3.8%	100,000	13,969,581	2,607,415	1,631,611	651,854	18,960,461	\$421
9	Years TOTAL PROJECT COST	100,000	13,969,581	2,607,415	1,631,611	651,854	18,960,461	\$421
	TOTAL COST (ROUNDED)	100,000	13,969,600	2,607,400	1,631,600	651,900	18,960,500	\$421

* Excludes modular temporary classrooms

Square Footage

45,005

Note - costs escalated at rates shown above, to midpoint of construction (FY23). There are 2 construction years, FY23 and FY24. Modernized Hillside opens July 2024 (FY25.) Mitchell moves to swing space FY23. FY21 is feasibility funding year; FY22 is schematic design & full funding year;

	FY21	FY22	FY23	
Fesibility	100,000			100,000
Arch/Engineering		2,607,400		2,607,400
Construction			16,253,100	16,253,100
	100,000	2,607,400	16,253,100	18,960,500

Major Public Facilities

Section 4

Significant Public Facilities Section Index

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Significant Public Facilities

<u>Needham High School</u>		609 Webster Street
Assessed Value:	\$48,715,600	
Parcel ID:	Map 226 Block 10	
Lot Size:	14 acres	
Original Construction:	1930; reconstruction in 2008	

Identified Future Capital Projects Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
						-
						-
Totals	-	-	-	-	-	-

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
A Gym Upgrade				130,557		130,557
Cafeteria Expansion			2,100,000			2,100,000
Class Room Expansion			150,000			150,000
Class Room Expansion Alternatives Study				65,000		65,000
High School Expansion and Improvements					14,263,000	14,263,000
Program Room Configuration Changes		200,000				200,000
Totals	-	200,000	2,250,000	195,557	14,263,000	16,908,557

Other significant maintenance/repairs in Calendar Year 2017 included:

- Replaced the variable frequency drive for the rooftop HVAC unit 4
- Repainted the parking lot
- Replaced window parts in rooms 214, 216, and 223
- Replaced the circuit compressors and motor controls in the HVAC units
- Replaced hot bypass and repaired rooftop HVAC unit 9
- Repaired elevator 1 in the main lobby
- Repaired stove in room 805
- Replaced the gas pressure regulator for boiler 4
- Repaired door 1
- Replaced supply fan motor for rooftop HVAC unit 2
- Repaired roof leaks above room 901
- Installed ice makers in new refrigerators in the Science Department room
- Repaired loading dock doors

Other significant maintenance/repairs in Calendar Year 2016 included:

- Converted metal halide lighting in the B gym to LED
- Replaced BMS server and reloaded information onto new server
- Installed a concrete slab in the bus loop by the building's main entrance
- Changed out kitchen grease traps
- Installed a new water bottle station in the café
- Repaired boilers 2 and 4
- Installed, maintained, and removed rental chiller
- Installed a wall and door in room 211
- Repaired boiler #4 insulation
- Installed shelves in work shop
- Repaired shingles on roof of C building
- Repaired uninvents in room 909, 910, and 807
- Repaired roof leak in room 909
- Insulated pipes for roof top HVAC units
- Repaired broken valve system in mixing valve
- Programming support for intranet capability to reprogram RTUs
- Replaced water damaged dry wall

Other significant maintenance/repairs in Calendar Year 2015 included:

- Repaired parking pole lights
- Painted balconies on the back side of the building
- Repaired lighting in the gym
- Subdivided and improved rooms 707 and 728, including painting, repairing leaks, and installing clocks, phones, Intercoms, and folding wall
- Retrofitted exterior lighting to LED lighting
- Repointed and sealed the grand stairwell
- Replaced the emergency phone and repaired the emergency lights, installed hoistway door restrictors and replaced missing hand rail
- Replaced the sprinkler elbow and reset the system
- Cleaned all parts and assembled motor for overhaul blower
- Replaced combustion heads on all four boilers
- Replaced #5 circulating pump
- Repaired boilers #2 and #3
- Disconnected and relocated kitchen ice maker in the Athletics Department, reworked electrical for both the ice maker and the Athletics Department
- Troubleshot and tuned boilers
- Painted balconies on the back side of the school

- Repaired phones in multiple rooms
- Repaired motor
- Shut down and winterized the chiller
- Grinded down wall for monument plaque
- Replaced shingles on the roof of C building
- Removed interior wall in room 608
- Repaired six parking lot lights, one small pole light, and one walk way light
- Repaired damaged guard rail
- Installed electrical service for new drying cabinet in the Graphic Arts Room
- Repaired RTU-9
- Replaced combustion heads and swirlers on boilers 1, 2, 3, and 4
- Moved light bank and relocated outlets, cable, and other devices to install folding wall
- Installed two fountains with bottle filling stations

Other significant maintenance/repairs in Calendar Year 2014 included:

- Mounted a 4'x6' plague in main lobby
- Replaced broken lights in A gym
- Installed crash bars on doors to the auditorium
- Created new reception desk in front lobby
- Upgraded the CCTV monitoring system
- Power washed and re-pointed exterior
- Installed electric univent in room 602
- Replaced the gas fired domestic hot water heater
- Installed carpet in the lobby area
- Replaced outside stairway with new concrete stairs
- Upgraded heating controls on boilers
- Installed two dietic entrematic devices on two door openers in order to make door #1 and #12 handicap accessible
- Repaired flooring and replaced built in carpet entry mat in A Gym and B Gym
- Repurposed room 101 to be a robotics lab

Other significant maintenance/repairs in Calendar Year 2013 included:

- Repaired exterior doors and upgraded hardware on doors
- Installed analog cameras in loading dock area and kitchen
- Replaced damaged gutters and downspout on the front and rear of the building
- Repaired bleachers in A gym to make operational
- Installed new heaters on the chiller
- Cleaned and sealed the stone work on the walls in the main lobby
- Repaired all pole lights and walkway lights in the parking lot

- Built two separate office spaces within the Guidance Suite
- Refinished floors in A gym and band room
- Converted copy room into the a new conference room
- Duct cleaning in the C, D, and E buildings
- Poured new concrete on 9 ramps and installed new detectable warnings
- Replaced circulating pump in boiler room
- Installed access control on door 15
- Replaced flooring in room 608 and 608A

Other significant maintenance/repairs in Calendar Year 2012 included:

- Cleaned duct work in buildings A & B
- Cleaned condenser coils
- Repaired chiller
- Replaced elevator piston in center connector lobby elevator
- Repaired 13 exterior lights by the parking lot
- Replaced and epoxied capstones on bottom wall, middle wall, and top wall
- Repaired existing free standing interlocking block wall at the main entrance
- Repairs to walk way
- Repaired AAB ramp on Webster Street side, installed concrete pads for benches, and repaired two drains on the center connector
- Repaired A Gym bleacher arm that failed
- Replaced bad condenser fan motors in 2 units in the auditorium
- Replaced tandem compressors for circuit #1 in RTU-6
- Relined parking lot on Webster Street side
- Repaired pipe handrail and stairwell on main staircase on Highland Ave. side
- Replaced cracked stone treads on main staircase on Highland Ave. side
- Installed washer and dryer in gym storage room
- Installed new manual winches on main basketball backboards

Other significant maintenance/repairs in Calendar Year 2011 included:

- Removed snow from roof
- Replace C building roof
- Weeded & mulched entire landscape on the Webster Street side.
- Refinished floor in A Gym and Band Space
- Repaired fence that was damaged during winter storm
- Repaired block wall in front of grand staircase
- Painted exterior awning to cafeteria
- Repaired several exterior lights

- Reconfigured stairway in hallway near B gym
- Installed modine heater in space between location of domestic hot water heater and A gym
- Installed lighting display for athletics display case

Other significant maintenance/repairs in Calendar Year 2010 included:

- Weeded & mulched entire landscape on the Webster Street side.
- Rebuilt circulation pump # 6
- Roof repairs C Building
- Replaced heating coils in multiple rooms and spaces
- Refinished floors in A gym and B gym
- Repainted traffic markings and installed signs
- Installed handicapped signs where required
- Insulated interior walls of Athletic Suite

Other significant maintenance/repairs in Calendar Year 2009 included:

- Upgraded Building Management Software and server, to improve energy efficiency
- Reprogrammed heating and cooling system to stagger start during morning start up, reducing load on energy grid
- Removed 13 univents, reinsulated, reflashed, replastered and reinstalled
- Replaced the control drive for the supply fan on RTU 4
- Replaced the control drive for the return fan on RTU 15
- Installed Lutron exterior lighting system to reduce energy consumption
- Enrolled emergency generator in Demand Response program
- Provided power and electrical outlets for wood shop
- Provided additional electrical outlets and for new school store
- Add additional electrical outlets in Art room to accommodate potting wheels
- Installed chair rails in nurses office
- Excavated trenches along sidewalks of plaza and installed 1 1/2" trap rock improve drainage and prevent erosion
- Refinished floor in the A Gym
- Roof repairs

William F Pollard Middle School

200 Harris Avenue

Assessed Value:	\$19,981,400
Parcel ID:	Map 35 Block 1
Lot Size:	26.57 acres
Original Construction:	1957; reconstruction in 1992; modular classrooms installed in 2002

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Air Conditioning Upgrade				100,000	550,000	650,000
Blue and Green Gym Upgrades	540,000	30,000				570,000
Locker Room Retrofit			60,000	630,000		690,000
Parking Lot Improvements					25,000	25,000
Phased Improvement Feasibility Study	65,000					65,000
New Facility (Pending Request 2027)						-
Totals	605,000	30,000	60,000	730,000	575,000	2,000,000

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Bathroom Improvements					650,000	650,000
Blue and Green Gym Upgrades					45,000	45,000
Boiler Replacement	800,000					800,000
Locker Replacement				41,157		41,157
Telephone System	53,000					53,000
Totals	853,000	-	-	41,157	695,000	1,589,157

Other significant maintenance/repairs in Calendar Year 2017 included:

- Reconstructed one set of restrooms
- Completed the locker replacement throughout the school
- Replaced shades in multiple classrooms
- Repaired the wall in the green gym
- Repaired the wall padding in the gyms
- Repaired the fan for the kitchen hood
- Installed new safety edge in elevator
- Reprogrammed card reader in the media room
- Removed rug and installed vinyl composition tile in the kitchen storeroom
- Repaired roof leak
- Repainted parking lot
- Repaired light covers in media center

- Replaced the seating and flooring in the Pollard Auditorium
- Converted portion of the teachers' lounge into storage area

Other significant maintenance/repairs in Calendar Year 2016 included:

- Reconfigured main office and media center, including installing a new wall, installing a 4 receptacle, installing 3 sprinklers, installing 5 strobes, terminating 28 new data drops, and changing extensions
- Relocated aiphone
- Repaired dry wall throughout building
- Repaired damaged section of sidewalk in the main entrance
- Repaired leaking pipe in kitchen
- Replaced VFD drive and control board in circulation pump
- Painted new walls
- Replaced and installed new blinds
- Replaced display screen and gaskets on boiler #3
- · Repaired exterior side panels on modular units
- Repaired boilers #1 and #2
- Repainted and repaired wall in kitchen

Other significant maintenance/repairs in Calendar Year 2015 included:

- Replaced lights in gym with LED high bay lights
- Removed and replaced 452 lockers
- Repaired broken lighting
- Installed 3 additional spot lights in the auditorium
- Completed asbestos monitoring and air sampling, as well as asbestos abatement and tile replacement
- Removed and replaced heating and AC systems in rooms 278 and 281
- Replaced a sprinkler head and a sprinkler feeder pipe
- Painted the back wall of the auditorium
- Performed cleaning of ductwork in HVAC system
- Fixed heat exchange problem
- Conducted asbestos abatement and tile replacement on the floor
- Disconnected 16 electrical floor mounted boxes and replaced breaker #14
- Painted the bare concrete areas of the Auditorium floor
- Painted the exterior wood trim on the front of the school
- Removed and replaced heating and air conditioning systems

Other significant maintenance/repairs in Calendar Year 2014 included:

- Installed new countertops and cabinets in room 208
- Removed asbestos flooring and replaced with new tile flooring

- Installed two door access control systems
- Replaced handrail near loading dock
- Pressure washed the north exterior wall of the modular classrooms
- Converted exterior flood lights from HID lights to LED lights
- Replaced four exhaust fans
- Installed and programmed a new Master Clock System
- Constructed wall and installed new door in order to form an additional classroom in room 212
- Replaced tile flooring in room 100
- Connected two domestic hot water pumps to the building automation and time scheduling system

Other significant maintenance/repairs in Calendar Year 2013 included:

- Replaced air handling units and exhaust fans
- Replaced sump pumps
- Repaired boiler #2
- Repaired intercom system and bells
- Replaced phone system
- Painted walls in Blue Gym and Green Gym
- Converted room 227 into two separate rooms
- Installed insulation in both gyms
- Repaired rubber flooring in both gyms
- Repaired wall padding in both gyms
- Replaced all rear outdoor light poles with new induction lighting
- Replaced all water cooler fountains
- Repaired sidewalk and walkway

Other significant maintenance/repairs in Calendar Year 2012 included:

- Installed new sink in classroom 210
- Converted classroom 210 to an engineering classroom
- Installed Sentricon termite control
- Upgraded kitchen from pneumatic to electronic heating control
- Retrofitted heat valves in 12 office areas
- Restored phone service to the modular classrooms
- Converted bathrooms in modular classrooms to standard fixtures
- Repaired boiler (section replacement)
- Installed motion sensors
- Installed new sink faucets in girls' restroom
- Removed and replaced urinals in boys' restroom
- Installed drain piping for 4 new serving tables

- Replaced 3 exterior light pole ballasts and lamps
- Installed boosters for fire alarm panel
- Replaced carpet in classrooms 227 and 132 with VCT
- Installed 2 new coils in café UV's
- Removed wall dividers in blue gym and replaced with flexible partitions in both blue & green gym
- Installed new sinks, drain lines, faucets, and water lines in classroom 251
- Restored modular classroom M6 an M7 back to original condition prior to Newman at Pollard

Other significant maintenance/repairs in Calendar Year 2011 included:

- Removed snow from roof
- Abated asbestos flooring and installed new tile
- Installed new front sign
- Repaired several exterior lights
- Installed split air conditioning system in room 209
- replaced Victaulic couplings with welded piper over Boiler #1 and Boiler #2
- Installed drain, water feed, sink, and fixtures in room 288 for new science classroom
- Rekeyed interior of building
- Installed insulation on roof drains

Other significant maintenance/repairs in Calendar Year 2010 included:

- Replaced the skirt under the modular classrooms
- Reactivated AHU-5
- Installed sink and extended water and drain service for room 286
- Installed motion light switches in all rest rooms, storage areas and small meeting rooms
- Asbestos abatement in various areas
- Stripped and reconstructed girls bathroom
- Rebuilt heating circulator pump
- Replaced heating circulator pump
- Interior painting

Other significant maintenance/repairs in Calendar Year 2009 included:

- · Converted classroom to science room, installing counter, sink and extending water and drain service
- Converted Art classroom to Wood Working classroom, upgrading electrical service and installed counters and cabinets
- Asbestos abatement in rooms 260 and 200 (Administrative Offices)
- Carpet installed in rooms 260 and 200 (Administrative Offices)
- Remove VCT tile and installed cushioned flooring in the weight room
- Installed Rentar Fuel Catalyst to reduce oil consumption
- Cleaned all duct work
- Painted a number of corridors, bathrooms and boys locker room

- Replaced all exterior doors and locks
- Refinished Auditorium Stage floor
- Roof repairs

Newman Elementary School

1155 Central Avenue

Assessed Value:	\$28,810,100
Parcel ID:	Map 216 Block 21
Lot Size:	60.7 acres
Original Constructions:	1961 as a Junior High School; reopened in 1993 as an Elementary School; major systems upgrade in 2012

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Preschool Playground Custom Shade Shelter		49,800				49,800
						-
Totals	-	49,800	-	-	-	49,800

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Preschool Playground	60,000					60,000
						-
Totals	60,000	-	-	-	-	60,000

Other significant maintenance/repairs in Calendar Year 2017 included:

- Fixed communication issues with Building Management System
- Repaired concrete steps
- Fixed leak in radiator in the gym
- Replaced leaking circulation pump
- Replaced broken window on second floor
- Repaired media center air conditioner

Other significant maintenance/repairs in Calendar Year 2016 included:

- Disassemble and reconnect boiler stacks
- Repaired door that was not closing properly
- Repaired heat in the gym
- Replaced multiple broken windows
- Repaired breaker in the gym power panel

- Repaired ERU 11 and ERU 6
- Repaired parking lot light pole
- Installed additional bookshelves in room 110
- Replaced floor tiles in hallway as needed

Other significant maintenance/repairs in Calendar Year 2015 included:

- Installed programmable time clock
- Fixed lights on the canopy over the entrance to the school
- Replaced lights in gym with LED high bay lights
- Repaired ramp and stairs leading to the courtyard
- Repaired drain system for the two Camus boilers
- Reattached and better secured shelving unit in room 222
- Removed, repaired, and reinstalled pumps
- Repaired Newman control
- Replaced combustion air actuator on domestic PVI hot water heater and replaced amplifier

Other significant maintenance/repairs in Calendar Year 2014 included:

• Connected domestic hot water pumps to the building automation system

Other significant maintenance/repairs in Calendar Year 2013 included:

- Replaced floor in the media center
- Installed new condensing unit for the science center animal room
- Secured the window curtain on the bridge

Other significant maintenance/repairs in Calendar Year 2012 included:

- Repair windows in classrooms 118 and 219
- Repaired pole lights in the parking lot
- Replaced damaged angle on the elevator car

Other significant maintenance/repairs in Calendar Year 2011 included:

- Removed snow from roof
- Refinished gym floor

Other significant maintenance/repairs in Calendar Year 2010 included:

- Installed new AC compressor in the administration area.
- Replaced 3 sections in boiler # 1 & 3 sections in boiler #2
- Cleaned all sections in boiler #1 & #2
- Refinished the floor in the gym

- Interior painting
- Installed domestic hot water pump
- Replaced solid gym divider with flexible divider
- Replaced shaft and bearing in fan room # 5
- Continued evaluation of 10,000 gallon underground storage tank and surrounding soils

Other significant maintenance/repairs in Calendar Year 2009 included:

- Painted hallways, stairwells, and band room
- Evaluated 10,000 gallon underground oil storage tank and surrounding soils
- Refinished Gym and Auditorium Stage floor
- Installed new HVAC control compressor
- Installed Rentar Fuel Catalyst to reduce oil consumption
- Replace 28' of 8" steam pipe between the east wing and west wing
- Replace sidewalk due to steam pipe project
- Replaced 6 boiler sections in the number two boiler
- Installed new steamer and kettle in kitchen
- Roof repairs

Mitchell Elementary School

Assessed Value:\$8,286,600Parcel ID:Map 56 Block 1Lot Size:12.47 acresOriginal Construction:1951; addition constructed in 1968

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Bathroom Improvements			60,000			60,000
Locker Replacement	70,000					70,000
New Facility (Pending Request 2025)						-
Totals	70,000	-	60,000			130,000

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Modular Classrooms	2,729,276					2,729,276
						-
Totals	2,729,276	-	-	-	-	2,729,276

Other significant maintenance/repairs in Calendar Year 2017 included:

- Upgrade PA system throughout building and added additional speakers
- Added door access system to the back door
- Replaced egress door 6
- Rebuilt steam traps
- Added additional airphone monitors for the front office
- Painted areas of the building

Other significant maintenance/repairs in Calendar Year 2016 included:

- Repaired steam valve and replaced temperature sensor in boiler #1
- Installed new shades
- Repaired bathroom stall
- Repaired roof leaks
- Replaced new motor in boiler
- Installed start capacitors on air conditioner
- Repaired broken window

Other significant maintenance/repairs in Calendar Year 2015 included:

• Painted the front, left side, and rear of the school

187 Brookline Street

- Repaired windows in lobby
- Repaired air conditioning unit
- Repaired steam weld
- Conducted asbestos abatement
- Replaced batteries and booster for the fire alarm as well as signal service

Other significant maintenance/repairs in Calendar Year 2014 included:

- Performed cleaning of ductwork in HVAC system
- Upgraded electrical wiring and panel in the kitchen and wired new range and steamer
- Installed new fence in courtyard

Other significant maintenance/repairs in Calendar Year 2013 included:

- Repaired granite steps at main entrance
- Installed occupancy sensors in all bathrooms
- Installed new induction lights in the parking lot
- Installed new awning over rear door
- Painted all door frames and hallways
- Asbestos abatement and re-insulation
- Boiler room upgrade
- Removed oil fired domestic hot water heater and replaced with natural gas fired unit
- Converted boiler burners to natural gas units

Other significant maintenance/repairs in Calendar Year 2012 included:

- Grouped exterior lights together
- Installed induction lights in place of existing wall packs
- Replaced motors on boiler room exhaust fan
- Installed new grease trap in kitchen
- Replaced doors and changed out locks
- Painted exterior of school
- Completed exhaust fan work and oil containment work
- Replaced 13 exterior windows in the gym

Other significant maintenance/repairs in Calendar Year 2011 included:

- Removed snow from roof
- Refinished wood floors in gym and cafeteria
- Installed lighting motion sensors throughout the entire building
- Weeded and mulched
- Replaced louvers and installed cages on exterior of building

Other significant maintenance/repairs in Calendar Year 2010 included:

- Installed motion detector light switches in all bathrooms, storage rooms and small meeting rooms
- Repaired stairs in the kindergarten area
- Refinished the floors in gym, cafeteria and stage
- Interior painting
- Added additional graphics to the Building Management System

Other significant maintenance/repairs in Calendar Year 2009 included:

- Installed new electrical service for new kitchen refrigerator and freezer
- Replaced boiler number two
- Installed Rentar Fuel Catalyst to reduce oil consumption
- Asbestos abatement in eleven classrooms and school administration area
- Installed VCT tile in all abated areas
- Installed twelve low flow toilets (MWRA Grant)
- Cleaned all duct work
- Replaced electrical service from building to parking lot lights
- Refinished Cafeteria, Stage and Gym floors
- Painted two class rooms, principles office, nurses office and stage ceiling
- Installed covers over AC units for the winter
- Converted pneumatic heating controls to digital controls and added to Building Management System

Hillside Elementary School

28 Glen Gary Road

Assessed Value:	\$78,406,200
Parcel ID:	Map 102 Block 1
Lot Size:	24.6 acres
Original Construction:	1960; addition constructed in 1968; modular classrooms installed in 1996

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Boiler Upgrade		11,000	220,000			231,000
Renovate Hillside as Swing Space for Mitchell Feasibility			750,000			750,000
Renovate Hillside as Swing Space for Other Uses			100,000	2,607,400	16,253,100	18,960,500
Totals	-	11,000	1,070,000	2,607,400	16,253,100	19,941,500

The table below shows the appropriations related to the replacement of the Hillside School with the Sunita L. Williams Elementary School.

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Land Acquisition - 609 Central Avenue				762,500		762,500
Land Acquisition - Owens Farm			7,000,000			7,000,000
Outside Play Area				250,000		250,000
New Elementary School	650,000		45,000	57,542,500		58,237,500
Walking Trails					210,000	210,000
Totals	650,000	-	7,045,000	58,555,000	210,000	66,460,000

Other significant maintenance/repairs on the Hillside School building in Calendar Year 2017 included:

- Painted the exterior of the building
- Cleared scale blockage in the boilers
- Repaired steam traps
- Installed new airphone system
- Repaired areas of the roof
- Replaced breaker in the panel
- Repaired the uninvent motor
- Fixed communication issues with Building Management System
- Installed HVAC in the kindergarten area

Other significant maintenance/repairs in Calendar Year 2016 included:

- Cleared blockage in boiler
- Repaired and replaced windows
- Repaired electrical controller for boiler
- Repaired outdoor lighting near playground
- Converted lighting in gym to LED
- Conducted mold testing
- Installed new air conditioning units
- Repaired PA speakers

Other significant maintenance/repairs in Calendar Year 2015 included:

- Installed Lexan guards on railings to both the gym and cafeteria to close gaps in stairwell
- Installed a dedicated circuit for the special education classroom
- Installed insulated shades in all classrooms
- Repaired the flooring in the portable's boys' bathroom
- Repaired a steam leak on the boiler system
- Repaired a water main break
- Conducted asbestos abatement
- Installed insulated shades in Rooms 10 and 10A
- Repaired piping and put the systems back together for both boilers and condensate system; tuned and tested fire boilers

Other significant maintenance/repairs in Calendar Year 2014 included:

- Repaired boiler #1 in order to bring back online
- Replace floor tiles in modular classrooms and hallway
- Installed single door access control system

Other significant maintenance/repairs in Calendar Year 2013 included

- Installed Lexan guards on railings to close gaps in stairwell
- Removed existing carpet and installed VCT flooring in Kindergarten classroom
- Upgraded the boiler room
- Installed fob access system on exterior door
- Replaced outdoor lights with induction lighting and LED lighting

Other significant maintenance/repairs in Calendar Year 2012 included

- Replaced all window AC units with Energy Star Rated units
- Replaced pump and did oil containment work
- Replaced flooring

Other significant maintenance/repairs in Calendar Year 2011 included:

- Removed snow from roof
- Replaced domestic hot water heater
- Installed storage area in gym/auditorium on stage
- Weeded and mulched
- Replaced grease trap in cafeteria kitchen
- Rebuilt steam traps throughout the school
- Installed lighting motion sensors throughout the entire building
- Refinished gym wood flooring

Other significant maintenance/repairs in Calendar Year 2010 included:

- Converted pneumatic HV control system to digital HV control system and added to the Building Management System (stimulus funding)
- Replaced heating coil in cafeteria air handling unit
- Replaced heating coil in room 10
- Refinished gym floor
- Install new bathroom stalls in three girls bathrooms and 3 boys bathrooms
- Refurbished flag pole
- Replaced two condensate pumps
- Cleaned duct work

Other significant maintenance/repairs in Calendar Year 2009 included:

- Removed and replaced decks and stairs for modular class rooms
- Replaced main water valve and secondary hot and cold water valves
- Replace four large exhaust fans
- Installed two AC's, including electrical service
- Replaced all faucet fixtures in bathrooms and class rooms
- Installed second Rentar Fuel Catalyst to reduce oil consumption
- Painted interior fire doors, interior door casings, selected hallway areas
- Refinished Gym floor
- Replaced light lenses
- Replaced bathroom stalls in one bathroom
- Replaced exterior doors
- Installed fence around dumpsters
- Caulked all exterior openings and AC units
- Installed covers over AC units for winter

Broadmeadow Elementary School

Assessed Value:\$13,193,900Parcel ID:Map 13 Block 3Lot Size:11.2 acresOriginal Construction:1951; reconstruction and addition in 2002

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Facility Assessment*	50,000					50,000
						-
Totals	50,000	-	-	-	-	50,000
*multiple facilities the amount is a portion of the total						
Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
						-

Other significant maintenance/repairs in Calendar Year 2017 included:

- Repaired rooftop HVAC unit 1 and replaced fan motor
- Cleaned exterior windows

Totals

- Replaced burner control module
- Replaced the boiler brain for boiler 2
- Repaired multiple leaks in the roof
- Replaced fan motor for rooftop HVAC unit 2

Other significant maintenance/repairs in Calendar Year 2016 included:

- Upgraded intercom system to comply with ALICE
- Installed Smartboards in various classrooms
- Installed new supplying motor in RTU 1
- Repaired broken window
- Replaced circulator pumps
- Removed damaged light pole

Other significant maintenance/repairs in Calendar Year 2015 included:

- Replaced combustion chamber on RTU 3
- Repaired elevator by installing a new electronic door and repairing heat detector in hoist way on elevator
- Performed cleaning of ductwork in HVAC system

120 Broad Meadow Road

-

- Retrofitted exterior lighting to LED lighting
- Replaced lights in gym with LED high bay lights
- Replaced the top pipe on the fence around the garden

Other significant maintenance/repairs in Calendar Year 2014 included:

- Created a reception area desk in the ETC office
- Installed two door access control systems
- Replaced the ignition controls on two boilers
- Upgraded interior lighting replaced all standard switches with sensor/motion detection switches
- Installed a new exhaust fan in kindergarten room
- Retro- commissioned the HVAC system
- Removed and replaced floor tiles in the main lobby area

Other significant maintenance/repairs in Calendar Year 2013 included:

- Installed occupancy sensors in all bathrooms
- Installed airphone system on exterior door
- Replaced flooring in hallways and various classrooms

Other significant maintenance/repairs in Calendar Year 2012 included:

- Installed LED bulbs in performance center and hallway
- Replaced water temperature sensor in generator room
- Installed 42 new clocks and new master unit
- Installed new airphone system
- Installed new exhaust fans on the roof
- Replaced flooring in music room
- Installed new diffuser in room 113
- Replaced condenser fans on RTU 4

Other significant maintenance/repairs in Calendar Year 2011 included:

- Removed snow from roof
- Replaced two compressors in RTU 3
- Replaced mixed air damper in RTU 5
- Replaced main breaker in RTU 2
- Repaired fence that was damaged during winter storm
- Replaced flooring in entrance way, performance, and rooms 4, 35, and 36
- Repaired several exterior lights
- Weeded and mulched

Other significant maintenance/repairs in Calendar Year 2010 included:

- Installed main compressor in RTU 3
- Replaced the flooring in rooms 55, 56, 60, 61 and the cafeteria
- Cleaned entire air handling system (duct cleaning)
- Refinished gym floor and stairs in Performance Center
- Replaced three circulator pumps for the domestic hot water system
- Interior painting

Other significant maintenance/repairs in Calendar Year 2009 included:

- Install split AC unit in head end room
- Replaced the motor, for the supply fan on RTU 2
- Painted selected hallway areas and bathrooms
- Replaced three way heat valve in Air Handling ceiling unit in gym

John Eliot Elementary School

Assessed Value:	\$11,798,700
Parcel ID:	Map 91 Block 19
Lot Size:	7.9 acres
Original Construction:	1955; replaced in 2004

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Facility Assessment*	50,000					50,000
						-
Totals	50,000	-	-	-	-	50,000
*multiple facilities the amount is a portion of the total						
Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
						-

135 Wellesley Avenue

Totals	-	-	-	-

Other significant maintenance/repairs in Calendar Year 2017 included:

- Replaced cracked section of boiler 1
- Repaired coolant leaks on rooftop HVAC unit 2
- Repaired the generator
- Repaired leaking coil in the gym

• Replaced domestic hot water heater

Other significant maintenance/repairs in Calendar Year 2016 included:

- Installed an additional aiphone
- Replaced various broken windows
- Repaired lighting in auditorium
- Replaced electronic lighting control panel in mechanical room
- Installed new actuators in RTU1
- Installed a new supply motor for RTU3
- Repaired air conditioning system for IT server equipment
- Repaired intercom

Other significant maintenance/repairs in Calendar Year 2015 included:

- Retrofitted exterior lighting to LED lighting
- Replaced lights in gym with LED high bay lights
- Installed compressor for RTU 1
- Repaired ballast and lamps in four parking lot pole lights and three walkway lights
- Repaired air conditioning circuit for RTU 1 and RTU 2
- Investigated Cold Room

Other significant maintenance/repairs in Calendar Year 2014 included:

- Replaced motor on the ductless split unit
- Replaced fence along the driveway
- Wired and programmed the boiler controls for better energy efficiency
- Installed two door access control systems
- Repaired boiler #2 to bring back online

Other significant maintenance/repairs in Calendar Year 2013 included:

- Replaced expansion tank for the domestic boiler
- Replaced flooring in hallways
- Replaced exterior lighting control panel

Other significant maintenance/repairs in Calendar Year 2012 included

- Installed airphone system on main entrance
- Replaced/repaired flooring in hallways
- Installed padding behind basketball nets

Other significant maintenance/repairs in Calendar Year 2011 included:

- Removed snow from roof
- Weeded and mulched
- Repaired fence that was damaged during winter storm
- Repair several exterior lights
- Replaced actuator and fixed damper in RTU 3
- Cleaned duct work

Other significant maintenance/repairs in Calendar Year 2010 included:

- Replaced all the seals in boiler #1
- Repaired marnolium flooring in the cafeteria and lobby area.
- Refinished gym and stage floors
- Replaced main breaker in electrical room
- Repainted traffic markings

Other significant maintenance/repairs in Calendar Year 2009 included:

- Replaced the control drive for the supply fan for RTU 3
- Repaired flooring in Performance Center

<u>High Rock School</u>		77 Sylvan Road
Assessed Value:	\$13,863,900	-
Parcel ID:	Map 133 Block 41	
Lot Size:	8.75 acres	
Original Constructions:	1955; reconstruction and addition in 2009	

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Locker Room Improvement Design					20,000	20,000
						-
Totals	-	-	-	-	20,000	20,000

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
						-
						-
Totals	-	-	-	-	-	-

Other significant maintenance/repairs in Calendar Year 2017 included:

- Replaced control module
- Repaired Linden Street fence
- Repaired domestic hot water heater
- Repainted parking lot

Other significant maintenance/repairs in Calendar Year 2016 included:

- Terminate and certify data lines
- Install module for boiler #3
- Installed new actuator and software for air conditioning unit
- Installed compressor in air conditioning unit
- Installed a new waterless urinal

Other significant maintenance/repairs in Calendar Year 2015 included:

- Replaced damaged pole light
- Converted parking lot lighting to LED lighting
- Repaired John Deere tractor

Other significant maintenance/repairs in Calendar Year 2014 included:

• Installed guardrails and new fencing in upper parking lot

- Performed cleaning of ductwork in the HVAC system
- Replaced controller on boiler #1

Other significant maintenance/repairs in Calendar Year 2013 included:

- Replaced cracked glass over main entrance door
- Installed new aluminum fence
- Repaired all outdoor lights

Other significant maintenance/repairs in Calendar Year 2012 included:

- Repaired 6 pole lights in the upper parking lot
- Relined parking lot

Other significant maintenance/repairs in Calendar Year 2011 included:

- Removed snow from roof
- Repair several exterior lights
- Weeded and mulched
- Refinished wood floor on stage
- Repaired fence that was damaged during winter storm
- Repaired domestic hot water heater

Other significant maintenance/repairs in Calendar Year 2010 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2009 included:

• Installed a 2.34 KW Solar Array

l	E	n	16	er	V	G	r	0	v	<u>e</u>	r	

1330 Highland Avenue

\$2,204,700
Map 53 Block 2
1.06 acres
14,742
1898

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Feasibility Study Update	70,000					70,000
Renovate/Reconstruct Facility		1,605,200	13,089,300			14,694,500
Roof Replacement#			15,000	160,000		175,000
Window Partial Replacement#		30,000	330,000			360,000
Totals	70,000	1,635,200	13,434,300	160,000	-	15,299,500

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Underground Oil Tank Removal & Replacement			73,000			73,000
						-
Totals	-	-	73,000	-	-	73,000

Other significant maintenance/repairs in Calendar Year 2017 included:

- Repaired roof leaks
- Repaired fire alarm panel
- Tested for asbestos
- Remodeled interior of main conference room

Other significant maintenance/repairs in Calendar Year 2016 included:

- Applied surface preparation to back wall in production center
- Replaced charcoal canister in fan system
- Installed a wall to separate payroll office into two sections
- Repaired broken cover to light fixture

Other significant maintenance/repairs in Calendar Year 2015 included:

- Repaired roof, including numerous leaks in roof
- Abated stair treads and replaced with new treads
- Removed underground storage tank
- Installed new above ground double walled tank

- Moved temporary fuel tanks to the right of present location
- Patched the cement on exterior side stairs
- Conducted asbestos abatement

Other significant maintenance/repairs in Calendar Year 2014 included:

- Painted hallways and offices on both floors
- Replaced fencing and gate around dumpster in the parking lot
- Replaced stair treads on interior stairways

Other significant maintenance/repairs in Calendar Year 2013 included:

- Installed insulation in the attic
- Installed awning over door entrance
- Replaced deteriorated metal cornices on roof
- Repaired brick archways on building

Other significant maintenance/repairs in Calendar Year 2012 included:

• Installed new indoor and outdoor units for heat pump system and adjusted system for dehumidification

Other significant maintenance/repairs in Calendar Year 2011 included:

- Reconstructed bathroom in basement
- Repaired to gutters and downspouts
- Removed all knob and tube wiring
- Removed finish floor, wall panels, and sub floor in ETC. Insulated walls, installed wall panels and sub floor, and finished floor.

Other significant maintenance/repairs in Calendar Year 2010 included:

- Asbestos abatement in several areas
- Installed rug in all abated areas (Administrative Areas)
- Removed and replaced floor and build outs along exterior foundation wall of ETC office
- Install vapor barrier throughout ETC office, insulated and reconstructed build outs along foundation walls
- Repoint bricks around the ETC office
- Repair and replace the gutters and down spouts on the north side of the building
- Installed new handrails in entrance
- Repainted traffic markings

Other significant maintenance/repairs in Calendar Year 2009 included:

- Asbestos abatement in several areas
- Installed rug in all abated areas (Administrative Areas)
- Exterior Painting
- Painted selected interior spaces

- Install covers over all AC's which cannot be removed
- Installed Rentar Fuel Catalyst to reduce oil consumption
- Upgraded electrical service in the production center

1471 Highland Avenue

Assessed Value:	\$10,363,100
Parcel ID:	Map 51 Block 1
Lot Size:	1.23 acres
Original Construction:	1902; reconstruction and addition in 2011

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
						-
						-
Totals	-	-	-	-	-	-

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Town Hall Stair Modifications					200,000	200,000
						-
Totals	-	-	-	-	200,000	200,000

Other significant maintenance/repairs in Calendar Year 2017 included:

- Repaired belt monitoring in elevator
- Replaced granite transaction counter
- Repaired roof leaks

Town Hall

- Repaired door closer
- Repaired AC chiller
- Repaired back flow preventer
- Implemented new security measures for remote access to Building Management system

Other significant maintenance/repairs in Calendar Year 2016 included:

- Repaired columns
- Repaired handicap accessible ramp
- Replaced the DAU
- Replaced steel hand rail and replaced missing steel grate
- Install outdoor electrical receptacle in the Needham bank parking lot

- Repaired elevator
- Repaired door
- Repaired broken roll up window in Town Manager's office
- Removed fir flooring in the small office
- Repaired windows

Other significant maintenance/repairs in Calendar Year 2015 included:

Replaced door

Other significant maintenance/repairs in Calendar Year 2014 included:

- Repaired the Voltape Bird Control System on the roof
- Repaired and repainted columns in Powers Hall auditorium

Other significant maintenance/repairs in Calendar Year 2013 included:

• Repaired automatic temperature controls

Other significant maintenance/repairs in Calendar Year 2012 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2011 included:

Put back in service October 2011

Other significant maintenance/repairs in Calendar Year 2010 included:

• Taken out of service February 2010

Department of Public Works/Operations

470 Dedham Avenue

\$3,106,400 (DPW Building)
Map 302 Block 5
17.7 acres
1960; addition in 1966

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Boiler Replacement#	34,000	400,000				434,000
Facility Improvements (Pending Results of Study)		2,950,000		35,000,000		37,950,000
DPW Equipment Storage Facility	7,900,000					7,900,000
Totals	7,934,000	3,350,000	-	35,000,000	-	46,284,000

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
DPW Equipment Storage Facility					150,000	150,000
DPW/Public Services Administration Building			20,000			20,000
Location Feasibility Study*			20,000			20,000
Facility Improvements Garage Bays	1,100,000					1,100,000
Fuel Island Relocation and Upgrade				131,000	1,320,000	1,451,000
Garage Lift	110,000					110,000
Totals	1,210,000	-	20,000	131,000	1,470,000	2,831,000

*multiple facilities the amount is a portion of the total

Other significant maintenance/repairs in Calendar Year 2017 included:

- Removed underground storage tank
- Upgraded lighting in the garage area to LED
- Fixed voicemail
- Replaced skid on generators
- Replaced entrance door at Charles River Water Treatment Plant
- Replaced muffler on Hillcrest Water Tower

Other significant maintenance/repairs in Calendar Year 2016 included:

- Removed asbestos in the garage and repaired asbestos containing pipe and insulation
- Replaced rotted pipes in garage
- Reattached exhaust heat pipe
- Install electric baseboard heat and wall thermostat

Other significant maintenance/repairs in Calendar Year 2015 included:

- Installed lighting in sidewalk bays
- Repaired boiler
- Replaced stay bolts
- Removed asbestos on insulation from the piping for the modine heater over the generator area in the garage
- Changed the door and frame for door #2
- Reinstalled insulation and exterior metal sheeting on the boiler

Other significant maintenance/repairs in Calendar Year 2014 included:

- Installed new shower valves in men's restroom
- Installed a new door to the garage office
- Replaced VFD in boiler motor
- Added additional lighting hardware outside of building

Other significant maintenance/repairs in Calendar Year 2013 included:

- Repaired block column which was damaged
- Replaced expansion tank #2 in boiler room

Other significant maintenance/repairs in Calendar Year 2012 included:

- Repaired and re-tubed boiler in boiler room
- Replaced expansion tank #1 in boiler room
- Changed cores on office doors on second floor

Other significant maintenance/repairs in Calendar Year 2011 included:

- Removed snow from roof
- Repaired exterior brick
- Repaired boiler
- Glazed and painted exterior of windows
- Reconfigured building to storage space

Other significant maintenance/repairs in Calendar Year 2010 included:

- Installed additional exterior back lot lighting for DPW employees
- Contracted with utility to have natural gas main brought to Water Building and DPW
- Converted oil fired burner to natural gas fired burner
- Clean out oil water separator at the DPW building
- Install new down spouts at Water Building
- Installed two urinals and flushometers in the Water Building
- Install new furnace at the Charles River Water Treatment Plant

Other significant maintenance/repairs in Calendar Year 2009 included:

- Repaired main boiler vessel
- Replace HVAC control compressor
- Installed Rentar Fuel Catalyst to reduce oil consumption
- Constructed Men's and Women's bathrooms in Water Building
- Installed new high efficiency propane heating system in Water Building
- Install water meter test bench in St. Mary's Pump Station

Public Services Administration Building

500 Dedham Avenue

\$5,827,200
Map 302 Block 3
2.67 acres
2009

Identified Future Capital Projects Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
						-
						-
Totals	-	-	-	-	-	-

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
DPW/Public Services Administration Building Location Feasibility Study*			20,000			20,000
						-
Totals	-	-	20,000	-	-	20,000

*multiple facilities the amount is a portion of the total

Other significant maintenance/repairs in Calendar Year 2017 included:

Re-progammed Building Management System

Other significant maintenance/repairs in Calendar Year 2016 included:

- Repaired the front door
- Repaired leaking ceiling tile

Other significant maintenance/repairs in Calendar Year 2015 included:

- Converted exterior lighting to LED lighting
- Repaired Schweiss Doors
- Removed and replaced Seimens soft start and reprogrammed all safety settings for the fire alarm

Other significant maintenance/repairs in Calendar Year 2014 included:

- Repaired seams in the linoleum flooring in the hallways
- Performed cleaning of ductwork in the HVAC system

Other significant maintenance/repairs in Calendar Year 2013 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2012 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2011 included:

• Repainted office spaces for new occupants

Other significant maintenance/repairs in Calendar Year 2010 included:

• No significant repairs

Recycling & Transfer Station

1407 Central Avenue

Assessed Value:	\$3,965,200
Parcel ID:	Map 308 Block 2
Lot Size:	22 acres
Original Construction:	1988

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Facility Upgrades and Improvements	645,000	27,000	120,000	120,000		912,000
Stormwater Plan		250,000	275,000			525,000
Totals	645,000	277,000	395,000	120,000	-	1,437,000

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Facility Upgrades and Improvements				68,000		68,000
Facility Upgrades and Improvements					290,000	290,000
Message Board		30,000				30,000
Stormwater Plan				50,000		50,000
Transfer Station Building Tipping Floor Replacement					166,000	166,000
Transfer Station Office Trailer		75,779				75,779
Totals	-	105,779	-	118,000	456,000	679,779

Other significant maintenance/repairs in Calendar Year 2017 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2016 included:

- Repaired the roof of the 3 bay garage
- Installed roof purlins in the 3 bay garage and the tipping floor
- Replaced faulty steel gussets for the tilt floor
- Rehung and secured sprinklers pipe
- Disconnected and removed overhead lights in tipping floor
- Installed electrical power to new town sign
- Repaired the heat in the employee trailer
- Replaced the compressor in the air conditioner
- Connected plumbing services for the RTS trailer
- Installed LED lights inside transfer station
- Installed new faucets

Other significant maintenance/repairs in Calendar Year 2015 included:

• Removed and replaced 3' of sheetrock and insulation in all office and bathroom areas

Other significant maintenance/repairs in Calendar Year 2014 included:

- Replaced eight roof mounted exhaust fans
- Replaced all exterior lights with induction lighting in order to be more energy efficient
- Re-lamped all interior lights

Other significant maintenance/repairs in Calendar Year 2013 included:

- Replaced flooring in the main office
- Repaired track on overhead door #2
- Repaired center column

Other significant maintenance/repairs in Calendar Year 2012 included:

- Installed steel barricade for the electrical switches in the garage
- Repaired damaged conduit
- Evaluated all overhead doors

Other significant maintenance/repairs in Calendar Year 2011 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2010 included:

- Installed AC in Superintendents office
- Repaired service power to overhead door
- Replaced overhead doors

Sa	lt	Sh	ed

1407 Central Avenue

<u>Suit Siica</u>	
Assessed Value:	\$1,811,800
Parcel ID:	Map 308 Block 2
Lot Size:	22 acres
Original Construction:	2013

Identified Future Capital Projects Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
						-
						-
						-
Totals	-	-	-	-	-	-

Five Year Capital Appropriation Summary Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
						-
						-
Totals	-	-	-	-	-	-

Other significant maintenance/repairs in Calendar Year 2017 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2016 included:

Repaired overhead door

Other significant maintenance/repairs in Calendar Year 2015 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2014 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2013 included:

• No significant repairs

Morse-Bradley House/Ridge Hill

461-463 Charles River Street

Assessed Value:	\$3,030,000
Parcel ID:	Map 306 Block 1
Lot Size:	223.1 acres
Original Construction:	1907 and 1929

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
						-
						-
Totals	-	-	-	-	-	-

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
						-
						-
Totals	-	-	-	-	-	-

Other significant maintenance/repairs in Calendar Year 2017 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2016 included:

- Repaired the fascia, soffit, and gutter
- Removed asbestos in the main house
- Installed electric supplemental heat in the basement of the main house

Other significant maintenance/repairs in Calendar Year 2015 included:

- Repaired slate roof
- Installed six LED high bay lights
- Replaced all fixtures

Other significant maintenance/repairs in Calendar Year 2014 included:

- Repaired two broken windows
- Constructed two kiosks

Other significant maintenance/repairs in Calendar Year 2013 included:

• Repaired damaged roof on the garage

Other significant maintenance/repairs in Calendar Year 2012 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2011 included:

- Installed alarm system
- Installed downspouts and drains

Other significant maintenance/repairs in Calendar Year 2010 included:

- Install 5/8" AC plywood to protect hard wood floors
- Winterized Plumbing
- Install new downspouts

Public Safety Buildings	88 Chestnut Street/99 School Street/707 Highland Avenue

Assessed Value:	\$3,408,800 (88 Chestnut Street/99 School Street)
	\$1,708,800 (707 Highland Ave)
Parcel ID:	Map 47 Block 56 (88 Chestnut Street)
	Map 70 Block 5 (707 Highland Avenue)
Lot Size:	1.04 acres (88 Chestnut Street/99 School Street)
	1 acre (707 Highland Avenue)
Original Construction:	1931 (88 Chestnut Street/99 School Street); renovation in 1989
	1906 (707 Highland Avenue)

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Public Safety and Station 2 Building Replacements	65,405,000					65,405,000
						-
Totals	65,405,000	-	-	-	-	65,405,000

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Underground Storage Tank Removal	28,500					28,500
Fire Station 2 Feasibility Study			50,000			50,000
Public Safety Building Replacement Feasibility				90,000		90,000
Public Safety and Station 2 Building Replacements					4,000,000	4,000,000
Totals	28,500	-	50,000	90,000	4,000,000	4,168,500

Other significant maintenance/repairs in Calendar Year 2017 included:

- Repaired air conditioning in Police sever room
- Repaired radiator unit at Fire Station 2

Other significant maintenance/repairs in Calendar Year 2016 included:

- Fire Station 1 & Police Station
 - Installed split AC, including new electrical service
 - Repaired multiple lights
 - Repaired light pole
 - Repaired garage door
- Fire Station 2
 - Repaired hanging heaters in apparatus bay
 - Repaired boiler

Other significant maintenance/repairs in Calendar Year 2015 included:

- Fire Station 1 & Police Station
 - Repaired leaks on walls and roof defects
 - o Installed karnak and mesh to leave watertight
 - o Installed two additional recessed lighting in the police server room
 - Inspected and repaired all masonry joints and flashing around chimney
 - Installed a split unit in the Server Room at the Police Station and completed electrical work
- Fire station 2
 - Replaced batteries, pull stations, and flow and pressure switch for sprinkler system

Other significant maintenance/repairs in Calendar Year 2014 included:

- Fire Station 1 & Police Station
 - Removed and replaced five shower stalls on the fire side.
 - \circ $\;$ Repaired boiler in order to bring it back online
- Fire station 2
 - Replaced fourteen windows on the second floor level as part of the energy efficiency upgrades

Other significant maintenance/repairs in Calendar Year 2013 included:

- Fire Station 1 & Police Station
 - Repaired chair lifts
 - Installed 10 new toilets in jail cells
 - Installed new induction lighting in parking lot
- Fire station 2
 - o Installed new faucets in kitchen

Other significant maintenance/repairs in Calendar Year 2012 included:

- Fire Station 1 & Police Station
 - o Installed air compressor and auto condensate drain in the garage
 - Furnished and installed a copper chimney cap and screening
 - Replaced parking lot pole
 - o Replaced voltage regulator and adjusting potentiometer
 - Installed new sink
 - Installed sentricon termite system
 - Painted exterior of Police station
 - Replaced section in overhead door in garage
 - Renovated kitchen
 - Repaired door #1 on Police side

- Replaced all showerheads
- Painted interior of stairwell in fire station
- Fire Station 2
 - Replaced main doors in apparatus bay
 - Replaced spiral duct and low voltage wiring
 - \circ $\,$ Cleaned gutters and repaired parts of the roofs
 - Sanded and painted exterior doors, trim, and handrails

Other significant maintenance/repairs in Calendar Year 2011 included:

- Fire Station 1 & Police Station
 - Repaired overhead doors
 - Repaired several exterior lights
 - Repaired Plymovent exhaust system in garage
 - o Cleaned duct work and abated mold
 - Replaced chiller and air handler
- Fire Station 2
 - o Replaced boiler with condensing boiler
 - Cleaned duct work
 - Repaired Plymovent exhaust system in garage
 - Replaced 8 windows in building
 - \circ Repaired overhead doors
 - Replaced gas stove and microwave in kitchen

Other significant maintenance/repairs in Calendar Year 2010 included:

- Repaired police and fires station overhead doors
- Exterior sprinkler repair at both station # 1 & station # 2
- Repaired natural gas line at station # 2
- Cleaned out gas/oil separator at Station # 1

Other significant maintenance/repairs in Calendar Year 2009 included:

- Completed repairs to police and fire station overhead doors
- Roof repairs
- Replaced roof on Public Safety Building
- Replaced carpeting in all administrative spaces in police station
- Painted all administrative spaces in police station
- Repaired natural gas leak in Fire Station #2
- Upgraded one main electrical service panel in Fire Station #2

Daley Building

Assessed Value:\$1,076,100Parcel ID:Map 70 Block 29Lot Size:.92 acresOriginal Construction:1960

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
						-
						-
Totals	-	-	-	-	-	-

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
						-
						-
Totals	-	-	-	-	-	-

Other significant maintenance/repairs in Calendar Year 2017 included:

- Installed guards and safety measures to equipment
- Replaced hot water heater

Other significant maintenance/repairs in Calendar Year 2016 included:

• Repaired cracks in the walls

Other significant maintenance/repairs in Calendar Year 2015 included:

- Completed various roof repairs
- Repaired masonry block walls

Other significant maintenance/repairs in Calendar Year 2014 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2013 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2012 included:

• No significant repairs

257 R Webster Street

Other significant maintenance/repairs in Calendar Year 2011 included:

- Repaired overhead doors
- Repaired security alarm system
- Repaired exterior masonry on northeast corner of building

Other significant maintenance/repairs in Calendar Year 2010 included:

• Installed Burner Booster (pilot) to reduce fuel oil consumption

Other significant maintenance/repairs in Calendar Year 2009 included:

Roof repairs

Needham Public Library

1139 Highland Avenue

Assessed Value:	\$13,772,800
Parcel ID:	Map 226 Block 55
Lot Size:	1.05
Original Construction:	1915; reconstruction and addition in 2006

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
						-
						-
Totals	-	-	-	-	-	-

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
						-
						-
Totals	-	-	-	-	-	-

Other significant maintenance/repairs in Calendar Year 2017 included:

- Repaired leaking gland seal on hydraulic ram in the "A" elevator
- Secured all ceiling panels
- Repaired irrigation system
- Replaced hand dryers
- Repaired leaks in roof
- Converted multiple sections of lights to LED
- Repaired PA system
- Repaired fire alarm panel

Other significant maintenance/repairs in Calendar Year 2016 included:

- Repaired the chiller
- Replaced and repaired multiple lights
- Installed new EPDM roof over awning
- Replaced hand dryers
- Calibrate t-stats in the Library
- Fixed coil and condensation leaks
- Installed cooling valve

Other significant maintenance/repairs in Calendar Year 2015 included:

- Improved the library's chiller by installing 3 new contractors for #1 compressor, recharging the system, and pressure testing circuit 2
- Replaced heat valve on ERU 3
- Assisted with installation of new equipment and demo in the Library community room
- Repaired leaks in Library archive room, skylight, conference room, and hallway
- Replaced 8 failed valve bodies
- Rehung fan powered box in children's room
- Cleaned exterior windows
- Repaired elevators by replacing telescopic twin post packing, adding cat oil to heads, resinking, and replacing oil injectors
- Required lighting circuitry and relocated three low voltage switches
- Repaired the air conditioning unit in the archive room
- Demolished four wall hung closets and carriers in first floor women's room and installed rough and finished plumbing for four new Gerberit wall hung concealed tank water closets
- Replaced one of the sewage ejector pumps
- Fixed chiller circuit #2
- Converted exterior lighting to LED lighting
- Replaced CPU panel
- Changed pressure transducer, replaced flow switch, and troubleshot problems on the chiller

Other significant maintenance/repairs in Calendar Year 2014 included:

- Installed lettering of clear printed names on balustrade
- Repaired compressor on chiller
- Replaced handicap door operator
- Replaced station cards and updated Samsung phone system
- Repaired damaged sheetrock in conference room
- Reset capstone wall, repaired ramp, and repaired stone pavers outside of the entrance to the building
- Repaired exterior concrete stairs
- Repaired book drop doors
- Painted exterior of front entrance

Other significant maintenance/repairs in Calendar Year 2013 included:

- Repaired all lighting throughout building
- Installed new capstone in stone knee wall outside of building

Other significant maintenance/repairs in Calendar Year 2012 included:

• Repaired clock facing Highland Avenue

- Removed and replaced cork flooring on second and first floor
- Upgraded controls on boiler #1
- Repaired pole lights in parking lot
- Repaired and improved handicapped door opener at rear entrance
- Replaced first floor window panel in children's room
- Repaired chiller roof
- Repaired morter on corner stones
- Repaired broken glass partition on 2nd floor
- Installed film and railings on glass balustrades

Other significant maintenance/repairs in Calendar Year 2011 included:

- Repaired Boiler #1 & # 2
- Repaired some exterior lighting
- Repaired cork flooring in main level
- Cleaned duct work

Other significant maintenance/repairs in Calendar Year 2010 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2009 included:

- Installed low volume ventilation system in Children's Room
- Removed the Wave in the Children's Room
- Patched and paint walls in Children's Room
- Installed cove base in Children's Room

Center	at t	he I	Heigh	ts (S	Senior	· Center)

300 Hillside Avenue

Assessed Value:	\$7,064,600
Parcel ID:	Map 99 Block 14
Lot Size:	1.64 acres
Original Construction:	2013

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Space Utilization Study					30,000	30,000
						-
Totals	-	-	-	-	30,000	30,000

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
						-
						-
Totals	-	-	-	-	-	-

Other significant maintenance/repairs in Calendar Year 2017 included:

Replaced door opener

Other significant maintenance/repairs in Calendar Year 2016 included:

- Installed new electrical outlet for new refrigerator
- Installed new window shades

Other significant maintenance/repairs in Calendar Year 2015 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2014 included:

- Installed new AED holders
- Installed six hoods for the Mitsubishi roof top units

Other significant maintenance/repairs in Calendar Year 2013 included:

• No significant repairs

Rosemary Complex	Rosemary Street
Assessed Value:	\$3,573,000
Parcel ID:	Map 225 Blocks 01;02;03;31
Lot Size:	36.49 acres Includes camp and lake (lake equals 11.8 acres +/- camp equals 19 acres +/-)
Original Construction:	Camp 1942, Pool 1960, and Buildings 1972

Identified Future Capital Projects Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
	112019	112020	112021	112022	112025	-
						-
Totals	-	-	-	-	-	-

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Pool Replacement Feasibility & Design			450,000	550,000		1,000,000
Rosemary Pool and Office Complex					15,800,000	15,800,000
Totals	-	-	450,000	550,000	15,800,000	16,800,000

Other significant maintenance/repairs in Calendar Year 2017 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2016 included:

• Repaired broken hand rails

Other significant maintenance/repairs in Calendar Year 2015 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2014 included:

- Repaired showers and sinks that were leaking in the women's restroom
- Installed new screens in windows
- Installed new diving board and new pedestal mount

Other significant maintenance/repairs in Calendar Year 2013 included:

- Replaced door knobs with new ADA compliant handsets
- Repaired wooden deck
- Repaired block wall

Other significant maintenance/repairs in Calendar Year 2012 included:

- Replaced all showerheads
- Replaced old hot water heaters with new energy efficient hot water heaters

Other significant maintenance/repairs in Calendar Year 2011 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2010 included:

• Replacement of two major pumps: lift pump and circulation pump

Other significant maintenance/repairs in Calendar Year 2009 included:

- Replaced two exterior doors and two handicapped doors
- DPW replaced a leaking pipe
- DPW did all the pool prep work including replacing deck boards
- Replaced light fixtures in filter room, underground storage, concession room, and handicap bathrooms
- Rebuilt center dock
- Replaced the fencing and gate around the DE pit
- Installed covering over stairs

Memorial Park

Assessed Value:\$913,100Parcel ID:Map 226 Block 30Lot Size:13.08 acresOriginal Construction:1985

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Memorial Park Field House Replacement and Improvements to the Grounds	5,900,000					5,900,000
						-
Totals	5,900,000	-	-			5,900,000

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Drainage Improvements				310,000		310,000
Improvements to Memorial Park Buildings and				50,000		50,000
Grounds Feasibility Study				50,000		50,000
Memorial Park Field House Replacement and					375,000	375,000
Improvements to the Grounds					575,000	575,000
Memorial Park Improvements		35,000				35,000
Totals	-	35,000	-	360,000	375,000	770,000

Other significant maintenance/repairs in Calendar Year 2017 included:

Replaced window

Other significant maintenance/repairs in Calendar Year 2016 included:

- Repaired the steps on the gazebo
- Installed new hand dryers
- Repaired window in office
- Installed new railings for the gazebo

Other significant maintenance/repairs in Calendar Year 2015 included:

- Replaced heat detector and strobe
- Replaced heat detector in football storage room 5
- Replaced one horn strobe on second floor
- Replaced fire alarm control panel and changed all devices to an addressable style
- Removed urinal and replaced with pedestal sink in first level unisex restroom

1154 Highland Avenue

Other significant maintenance/repairs in Calendar Year 2014 included:

- Water sealed the wood stairs at Memorial Park
- Installed new water heater at Memorial Park Field House
- Changed locks and door hardware on both doors at Memorial Park

Other significant maintenance/repairs in Calendar Year 2013 included:

• Installed new gas furnaces at Memorial Park

Other significant maintenance/repairs in Calendar Year 2012 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2011 included:

- Replaced all exterior doors at Memorial Park
- Repainted awning on exterior of Memorial Park

Other significant maintenance/repairs in Calendar Year 2010 included:

Repainted traffic markings

Other significant maintenance/repairs in Calendar Year 2009 included:

• No significant repairs

Chestnut Street Annex (reserved for public safety expansion)

66 – 70 Chestnut Street

Assessed Value:\$1,294,400Parcel ID:Map 47 Block 57Lot Size:.58 acresOriginal Construction:Purchased 12/18/2013

Other significant maintenance/repairs in Calendar Year 2017 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2016 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2015 included:

• Removed sign from property

Other significant maintenance/repairs in Calendar Year 2014 included:

• No significant repairs

Needham Parks

Assessed Value:	Multiple
Parcel ID:	Multiple
Lot Size:	Multiple
Original Construction:	Multiple

Identified Future Capital Projects						
Project	FY2019	FY2020	FY2021	FY2022	FY2023	Total
Artificial Turf Carpet Replacement	55,000	2,500,000				2,555,000
Asa Small Field Improvements		34,000	152,000			186,000
Claxton Field Improvements	510,000		17,500	120,000		647,500
Cricket Building and Field Improvements		542,000	649,000			1,191,000
McLeod Field Improvements			35,000	450,000		485,000
Playground Improvements Townwide	300,000	400,000				700,000
Rosemary Camp and Trail Improvements	50,000	200,000				250,000
Rosemary Lake Sediment Removal	2,400,000					2,400,000
Town Common Redesign		52,000	906,000			958,000
Town Reservoir Sediment Removal			126,500	1,035,000		1,161,500
Wildwood Drive Pond	25,000					25,000
Totals	3,340,000	3,728,000	1,886,000	1,605,000	-	10,559,000

Five Year Capital Appropriation Summary						
Project	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Cricket Building and Field Improvements					35,000	35,000
Mills Field Improvements	40,000		510,000			550,000
Newman School Fields			1,527,000			1,527,000
Newman School Trail	248,000		800,000			1,048,000
Rail Trail Improvements			100,000			100,000
Reservoir and Ridge Hill Trails	85,000					85,000
Reservoir Trail					935,000	935,000
Rosemary Lake Sediment Removal Project				118,000		118,000
Totals	373,000	-	2,937,000	118,000	970,000	4,398,000

Other significant maintenance/repairs in Calendar Year 2017 included:

• Installed new electrical service to Mills Field building

Other significant maintenance/repairs in Calendar Year 2016 included:

- Installed two new hand dryers at the DeFazio Field bathroom facility
- Replace missing stall doors at the DeFazio Field bathroom facility

Other significant maintenance/repairs in Calendar Year 2015 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2014 included:

• Replaced locks and door hardware on restroom doors at Claxton Field

Other significant maintenance/repairs in Calendar Year 2013 included:

• Installed two new toilets in women's bathroom at Cricket Field

Other significant maintenance/repairs in Calendar Year 2012 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2011 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2010 included:

• No significant repairs

Other significant maintenance/repairs in Calendar Year 2009 included:

• No significant repairs

Glossary

Section 5

GLOSSARY

Provided below are some of the commonly used terms in budget and capital planning and fiscal and debt management.

Account - A classification of appropriation by type of expenditure.

Accounting Period – A period of time (e.g., one month, one year) where the Town determines its financial position and results of operations.

Accrual Basis - The basis of accounting under which transactions are recognized when they occur, regardless of the timing of related cash flows.

Actuarial - A person or methodology that makes determinations of required contributions to achieve future funding levels by addressing risk and time.

ADA - Americans with Disabilities Act

Athletic Facility Improvement Fund - This fund was created at the 2012 Annual Town Meeting. The purpose of this fund is to allow the Town to reserve funds for the renovation and reconstruction of the Town's athletic facilities, with particular emphasis on the turf fields installed at the Memorial Park and DeFazio Field.

American Reinvestment and Recovery Act - The American Recovery and Reinvestment Act of 2009, abbreviated ARRA or Federal Stimulus, is an economic stimulus package enacted by Congress in February 2009. The Act includes federal tax cuts, expansion of unemployment benefits and other social welfare provisions, and domestic spending in education, health care, and infrastructure, including the energy sector.

Appropriation – A legal authorization granted by Town Meeting to expend money and incur obligations for specific public purposes.

ARRA - See American Reinvestment and Recovery Act

Assessment – The official valuation of property for purposes of taxation.

Available Funds – Balances in the various fund types that represent non-recurring revenue sources. As a matter of sound practice, they are frequently appropriated to meet unforeseen expenses, for capital expenditures or other onetime costs. Examples of available funds include free cash, stabilization funds, overlay surplus, and retained earnings.

Balanced Budget – A budget is balanced when planned funds or total revenues equal planned expenditures, that is, total

outlays or disbursements, for a fiscal year.

Betterment (Special Assessment) – Whenever part of a community benefits from a public improvement, or betterment (*e.g.*, water, sewer, sidewalks, etc.), special property taxes may be assessed to the property owners of that area to reimburse the governmental entity for all, or part, of the costs it incurred in completing the project. Each property parcel receiving the benefit is assessed a proportionate share of the cost which may be paid in full, or apportioned over a period of up to 20 years.

Bond – A written promise to pay a specified sum of money (called the face value or principal amount) at a specified date or dates in the future (called the maturity date), together with periodic interest at a specified rate. The difference between a note and a bond is that the latter runs for a longer period of time and requires greater legal formality.

Bond Anticipation Note (BAN) – Short-term interest-bearing notes issued by a government in anticipation of bonds to be issued at a later date. Notes are retired from proceeds from the bond issue to which they are related and/or from a cash payment and/or Town appropriation.

Capital Budget - A plan for capital expenditures for projects to be included during the first year of the capital improvement plan.

Capital Exclusion – A *temporary* increase in the tax levy to fund a capital project or make a capital acquisition. Exclusions require 2/3 vote of the entire Board of Selectmen and a majority vote in a town-wide election. The exclusion is added to the tax levy only during the year in which the project is being funded and may increase the tax levy above the levy ceiling.

Capital Facility Stabilization Fund - This fund was created at the 2007 Annual Town Meeting. The purpose of this fund is to allow the Town to reserve funds for design, maintenance, renovation or reconstruction relating to the structural integrity, building envelope or MEP (mechanical, electrical, plumbing) systems of then existing capital facilities. For this purpose, capital facility refers to any building or structure which is located on Town property and is under the jurisdiction of the Town Manager, including any Town owned building, structure, room, or space within a building, facility, park or plaza, open space, driveway, landscaped area, or other physical improvements under the administrative control of the Town.

Capital Improvement Fund – This fund was created at the 2004 Annual Town Meeting. The purpose of this Fund is to allow the Town to reserve funds for the acquisition of new equipment and/or the replacement of existing equipment (for which the Town may borrow money for a period of five years or more), and/or for building/facility improvements with a cost of less than \$250,000 (for which the Town may borrow money for a period of five years of more). Only general fund capital that has been recommended in the Capital Improvement Plan (CIP) is eligible for funding in this manner.

Capital Improvement Plan (CIP) – A financial planning and management tool that identifies public facility and equipment requirements and schedules them for funding and implementation.

Capital Project – Major, non-recurring expenditure involving one or more of the following: acquisition of land for a public purpose; construction of or addition to a facility such as a public building, water or sewer lines, play field, etc.; rehabilitation or repair of a building, facility, or equipment, provided the cost is \$25,000 or more and the improvement will have a useful life of five years or more; purchase of equipment costing \$25,000 or more, with a useful life of five years or more; and any planning, engineering, or design study related to an individual capital project.

Cash Basis - A basis of accounting under which transactions are recognized only when cash changes hands.

Chapter 90 – Massachusetts General Laws Chapter 90, Section 34 authorizes the Commonwealth to allocate funds to municipalities, through the Transportation Bond Issue, for highway construction, preservation and improvement projects that create or extend the life of capital facilities; routine maintenance operations such as pothole filling and snow and ice removal are not covered. The formula for determining the Chapter 90 level of funding is based on a municipality's miles of public ways, population and level of employment. Municipalities receive Chapter 90 reimbursement only for pre-approved projects.

Cherry Sheet - Originally printed on a cherry-colored form, this document reflects all Commonwealth charges, distributions and reimbursements to a city or town as certified by the state Director of the Bureau of Accounts.

Collective Bargaining - The process of negotiations between the Town and bargaining units (unions) regarding the salary and fringe benefits of town employees.

Community Preservation Act (CPA) – Enacted as Massachusetts General Laws Chapter 44B in 2000, CPA permits cities and towns accepting its provisions to establish a restricted fund from which monies can be appropriated only for a) the acquisition, creation and preservation of open space; b) the acquisition, preservation, rehabilitation, and restoration of historic resources; and c) the acquisition, creation and preservation of land for recreational use; d) the creation, preservation and support of community housing; and e) the rehabilitation and restoration of open space, land for recreational use and community housing that is acquired or created using monies from the fund. The local program is funded by a local surcharge up to 3 percent on real property tax bills and funds from the state generated from registry of deeds fees. The voters of Needham approved a 2 percent surcharge effective July 1, 2005.

Community Preservation Fund - A special revenue fund established pursuant to Massachusetts General Laws Chapter 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.

Conservation Fund – The Town may appropriate money to a conservation fund. This money may be expended by the Conservation Commission for lawful conservation purposes as described in Massachusetts General Laws Chapter 40 Section 8C. The money may also be expended by the Conservation Commission for damages arising from an eminent domain taking provided that the taking was approved by two-thirds vote of Town Meeting.

Contingent Appropriation – An appropriation that authorizes spending for a particular purpose only if subsequently approved in a voter referendum. Under Massachusetts General Laws Chapter 59 Section 21C (m), towns may make appropriations from the tax levy, available funds or borrowing, contingent upon the subsequent passage of a Proposition 2½ override or exclusion question for the same purpose. If initially approved at an annual Town Meeting, voter approval of the contingent appropriation must occur by certain date after the Town Meeting dissolves. The question may be placed before the voters at more than one election, but if not approved by the applicable deadline, the appropriation is null and void.

Debt Exclusion – A *temporary* increase in the Town's levy limit (and possibly the levy ceiling) to exclude the payment of debt from the limits of Proposition 2½. The debt service is added to the levy limit for the life of the debt only. To place a debt exclusion question on the ballot requires a 2/3 vote of the entire Board of Selectmen. The debt exclusion question requires a majority vote by voters for passage.

Debt Exclusion Offset – Other funds that are used to reduce the amount of the debt paid by the tax levy. An example is a bond premium which is the difference between the market price of a bond and its face value. A premium will occur when the bond's stated interest rate is set higher than the true interest cost (the market rate). Additions to the levy limit for debt exclusion are restricted to the true interest cost incurred to finance the excluded project. Premiums received at the time of sale must be offset against the stated interest cost in computing the debt exclusion. If receipt of the premium and the payment of interest at maturity of an excluded debt occur in different fiscal years, reservation of the premium for future year's debt service is required at the end of the fiscal year when the premium was received.

Debt Limit – The maximum amount of gross or net debt that is legally permitted under State Law.

Debt Policy – Part of an overall capital financing policy that provides evidence of a commitment to meet infrastructure needs through a planned program of future financing. The Town of Needham has debt policies that have been developed in consultation with the Finance Committee and reviewed and approved by the Board of Selectmen.

Debt Service – The amount paid annually to cover the cost of both principal and interest on a debt issuance until its retirement.

Department - A service providing entity of the town government.

Division - A budgeted sub-unit of a department.

Encumbrance – The setting aside of funds to meet known obligations.

Enterprise Fund – A municipal fund established for the operation of a municipal utility, health care, recreational, or transportation facility whereby the operations are fully funded by the fees associated with that enterprise rather than by the tax levy. The "surplus" or retained earnings generated by the operation of the enterprise remain with the fund to offset future

capital improvements, extraordinary maintenance expenses, or to reduce future fees and charges of the fund.

Expenditure Account Code - An expenditure classification according to the type of item purchased or service obtained, for example, regular compensation, energy expense, communications, educational supplies, and vehicle equipment.

Fiscal Year - The twelve-month financial period used by the Town beginning July 1 and ending June 30 of the following calendar year. The Town's fiscal year is numbered according to the year in which it ends.

Fixed Assets – Assets of a long-term character, which are intended to continue to be held or used, such as land, building, and improvements other than buildings, machinery, and equipment.

Formula Grant – Federal funding for which the allocation methodology is strictly determined in federal statute or regulation, and for which a government agency prepares a single application and receives subsequent years' allocation without re-application.

Free Cash – Free cash is the amount of the General Fund unassigned fund balance that may be used as a source to fund appropriations. The Massachusetts Department of Revenue certifies the amount of "free cash" resulting from closing the financial books as of June 30, the end of the fiscal year. Free cash may only be used after the certification process by the Department of Revenue is complete. For example, the July 1, 2012 certified amount may be used to fund supplemental appropriations voted during fiscal year 2013, or applied as a revenue source to support the fiscal 2014 appropriations that may be voted in the spring of 2013.

Fringe Benefits – Employee-related costs other than salary, e.g., insurance and retirement costs.

Full Faith and Credit – A pledge of the general taxing power for the payment of debt obligations. Bonds carrying such pledges are referred to as general obligation bonds or full faith and credit bonds.

Full-time Equivalent Position (FTE) - A concept used to group together part-time positions into full-time units.

Fund - An independent fiscal and accounting entity with a self-balancing set of accounts recording cash and/or other resources with all related liabilities, obligations, reserves, and equities that are segregated for specific activities or objectives. Among the fund types used by the Town are General, Special Revenue, Capital Projects, Trust, and Enterprise.

FY - Fiscal Year

GASB – This refers to the Governmental Accounting Standards Board which is currently the source of generally accepted accounting principles (GAAP) used by state and local governments in the United States. It is a private, non-governmental organization. The GASB has issued Statements, Interpretations, Technical Bulletins, and Concept Statements defining GAAP for

state and local governments since 1984.

GASB 34 –GASB Statement Number 34 set new GAAP requirements for reporting major capital assets, including infrastructure such as roads, bridges, water and sewer facilities, and dams. The Town of Needham has implemented the Governmental Accounting Standards Board's (GASB) Statement Number 34, Basic Financial Statements and Management's Discussion and Analysis for State and Local Governments, financial reporting model. This standard changed the entire reporting process for local governments, requiring new entity-wide financial statements, in addition to the current fund statements and other additional reports such as Management Discussion and Analysis.

GASB 45 – The Town of Needham's financial statements are required to implement Governmental Accounting Standards Board (GASB) Statement Number 45 for other post employment benefits (OPEBs) including health care, life insurance, and other nonpension benefits offered to retirees. This new standard addresses how local governments should account for and report their costs related to post employment health care and other non-pension benefits, such as the Town's retiree health benefit. Historically, the Town's cost was funded on a pay-as-you-go basis. GASB 45 requires that the Town accrue the cost of the retiree health insurance and other post employment benefits during the period of employees' active employment, while the benefits are being earned, and disclose the unfunded actuarial accrued liability in order to accurately account for the total future cost of post employment benefits. The Town has established Fund and annually appropriates the required contribution based on updated reports. The Fund will allow the Town to capture long-term investment returns and make progress towards reducing the unfunded liability.

Generally Accepted Accounting Principles (GAAP) - The basic principles of accounting and reporting applicable to state and local governments, including the use of the modified accrual or accrual basis of accounting, as appropriate, for measuring financial position and operating results. These principles must be observed to provide a basis of comparison for governmental units.

General Fund - The fund into which the general (non-earmarked) revenues of the municipality are deposited and from which money is appropriated to pay the general expenses of the municipality.

General Obligation Bonds – Bonds for the payment of which the full faith and credit of the issuing government are pledged.

Infrastructure – The underlying foundation or basic framework of an organization or system, e.g., roads, bridges, buildings, land, and natural resources.

Lease-Purchase Agreements – Contractual agreements which are termed "leases," but which in substance amount to purchase contracts in which the financing is provided by an outside party.

Levy Limit – Property tax levy limits that constrain the total amount of revenue that can be raised from the property tax. In

Massachusetts, the levy limit is governed by Proposition 21/2.

Mandate – A requirement from a higher level of government that a lower level government perform a task in a particular way or in conformance with a particular standard.

Massachusetts Water Pollution Abatement Trust (MWPAT) - A statewide revolving fund that commenced operations in 1990 to address necessary environmental actions outlined in the Federal Clean Water Act.

Massachusetts Water Resources Authority (MWRA) - The Massachusetts Water Resources Authority is a Massachusetts public authority established by an act of the Legislature in 1984 to provide wholesale water and sewer services to 2.5 million people in 61 metropolitan Boston communities. The Town of Needham disposes all wastewater through the MWRA system and purchases drinking water as needed from the MWRA during the year.

Modified Accrual Basis - The accrual basis of accounting adapted to the governmental fund type, wherein only current assets and current liabilities are generally reported on fund balance sheets and the fund operating statements present financial flow information. Revenues are recognized when they become both measurable and available to finance expenditures of the current period. Expenditures are recognized when the related fund liability is incurred except for a few specific exceptions. All governmental funds and expendable trust funds are accounted for using the modified accrual basis of accounting.

Note Payable – In general, an unconditional written promise signed by the maker to pay a certain sum in money on demand or at a fixed or determinable time either to the bearer or to the person designated therein.

Official Statement - The municipal equivalent of a bond prospectus.

Operating Budget - A budget making appropriations for the ordinary maintenance or administration of activities for the fiscal year.

Operating Equipment - Equipment that has a life expectancy of more than one year and a value of less than \$25,000 dollars. Equipment with a useful life of five or more years and a value greater than \$25,000 dollars is capital equipment.

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. At the end of each fiscal year, unused overlay surplus is "closed" out to fund balance, in other words, it becomes a part of Free Cash (see Undesignated Fund Balance).

Override - A permanent increase of the Town's levy limit (but not the levy ceiling) when a majority of voters in an election approve such an override. The override amount becomes part of the levy base when setting the next year's levy limit. To place an Override question on the ballot requires a majority vote of the Board of Selectmen.

Pay-As-You-Go – A term used to describe the financial policy of a government which finances all of its capital outlay from current revenues rather than by borrowing. A government which pays for some improvements from current revenues and others by borrowing is said to be on a partial or modified pay-as-you-go basis.

Pay-As-You-Use – A term used to describe the financial policy of a government which finances its capital outlays from borrowing proceeds and pays for capital assets over their useful life.

Performance Measure - An indicator of progress toward a goal or strategy. Measures can be defined for identifying output, work or service quality, efficiency, effectiveness, and productivity.

Proposition 21/₂ - That measure which limits municipal property taxes to 21/₂ percent of the community's full and fair cash value (levy ceiling), and which limits the amount of revenue a municipality can raise through property taxes (levy limit) to 21/₂ percent each year, plus a factor for new growth. A municipality may exceed its levy limit in two ways: override or debt exclusion.

Provisional Capital – A capital request that is submitted by a department to identify a future need or obligation, but the department is not in the position to provide the necessary details so that the request can be evaluated.

Reserve Fund - An amount set aside annually by a vote of Town Meeting to provide a funding source for extraordinary or unforeseen expenditures. Only the Finance Committee can authorize transfers from the reserve fund. Any balance remaining in the reserve fund at the end of the fiscal year is "closed" out to fund balance and ceases to be available.

Special Revenue Fund - Used to account for the proceeds of specific revenue sources (other than special assessments, expendable trusts, or sources for major capital projects) that are legally restricted to expenditures for specific purposes. A special revenue fund is accounted for in the same manner as a General Fund.

Stabilization Fund – Massachusetts General Laws Chapter 40, Section 5B allows a municipality to appropriate annually to such fund an amount to be raised in the preceding fiscal year; the aggregate amount in the fund shall not exceed ten percent of the equalized valuation of the municipality. The Treasurer shall be custodian of the fund and may invest the proceeds legally; any interest earned shall remain with the fund. The Stabilization Fund may be appropriated by Town Meeting. The appropriation may be used for any lawful purpose.

Technology Infrastructure - The hardware and software that support information requirements, including computer workstations and associated software, network and communications equipment, and system-wide devices.

Town Meeting - Town Meeting is both an event and a governmental body. As an event, it is a gathering of a Town's representative Town Meeting Members (TMM), and is referred to as "the Town Meeting." As a governmental body, it is the legislative body for the Town of Needham, and is referred to simply as "Town Meeting."

Trust Funds - Funds held by the Town in a fiduciary role, to be expended for the purposes specified by the donor.

Uniform Procurement Act – Enacted in 1990, Massachusetts General Laws Chapter 30B establishes uniform procedures for local government to use when contracting for supplies, equipment, services and real estate. The act is implemented through the Office of the Inspector General.

Warrant - The warrant lists a Town Meeting's time, place, and agenda. A warrant is also known as a warning. A Town Meeting's action is not valid unless the subject was listed on the warrant.

Appendices

Section 6

- A. Capital Improvement Policies
- B. Debt Management Policies
- C. Retained Earnings Policy for Water & Sewer Enterprise Funds
- D. Retained Earnings Policy for Solid Waste Enterprise Funds
- E. Capital Request Guidelines

CAPITAL IMPROVEMENT POLICIES

A. General Provisions

- 1. Capital items for the purpose of this Capital Improvement Plan shall be defined as follows:
 - Items requiring an expenditure of at least \$25,000 and having a useful life of more than five years.
 - Projects consisting of real property acquisitions, construction, capital asset improvements, long-life capital equipment, or major maintenance/repair of and existing capital item, as distinguished from a normal operating expenditure.
 - Items obtained under a long-term lease.
- 2. Town departments will submit spending requests that provide sufficient funding for adequate maintenance and orderly replacement of capital plant and equipment.
- 3. All assets will be maintained at a level that protects capital investment and minimizes maintenance and replacement costs.
- 4. All equipment replacement needs for the coming five years will be projected and the projection will be updated each year.
- 5. Future operating and maintenance costs for all new capital facilities will be fully costed out.

B. Capital Improvement Fund (CIF)

- 1. In accordance with the provisions of M.G.L. c. 40 Section 5B, as amended by Section 14 of Chapter 46 of the Acts of 2003 and Section 19 of Chapter 140 of the Acts of 2003, the Town of Needham has established a General Fund Cash Capital Equipment and Facility Improvement Fund hereinafter referred to as the Capital Improvement Fund or CIF (Article 58/2004 ATM). The purpose of the CIF is to allow the Town to reserve funds to use for general fund cash capital.
- 2. Appropriations from the CIF are restricted to the following items for which the Town may borrow for a period of five years or more: the acquisition of new equipment; the replacement of existing equipment; and building and facility improvements which cost less than \$250,000.
- 3. Only General Fund capital items that have been identified in the CIP for a period of three (3) years or more, and that have been recommended in the Capital Improvement Plan for the current year, are eligible for funding from the CIF.
- 4. The CIF may be used to pay for recurring equipment replacement needs that have been identified in the CIP and funded in at least three (3) of the five (5) immediately preceding fiscal years.
- 5. Appropriations into the CIF and interest earnings on the Fund become part of the Fund.

C. Capital Facility Fund (CFF)

- 1. In accordance with the provisions of M.G.L. c. 40 Section 5B, as amended by Section 14 of Chapter 46 of the Acts of 2003, and as further amended by Section 19 of Chapter 140 of the Acts of 2003, the Town of Needham has established a Capital Facility Fund (Article 10/2007 ATM). The purpose of this Fund is to allow the Town, from time to time, by appropriation, to reserve funds for the design, maintenance, renovation, or reconstruction relating to the structural integrity, building envelope, or MEP (mechanical, electrical, plumbing) systems of then existing capital facilities.
- 2. For the purpose of the Fund, the term "capital facility" shall refer to any building or structure which is located on Town property and is under the jurisdiction of the Town Manager.
- 3. The term "building or structure " shall include, but not be limited to, any Town-owned building, structure, room, or space within a building, facility, park or plaza, open space, driveway, landscaped area, or other physical improvements under the administrative control of the Town
- 4. Appropriations into the CFF and interest earnings on the Fund become part of the Fund.

D. Athletic Facility Improvement Fund (AFIF)

- 1. In accordance with the provisions of M.G.L. c. 40 Section 5B, as amended by Section 14 of Chapter 46 of the Acts of 2003, and as further amended by Section 19 of Chapter 140 of the Acts of 2003, the Town of Needham has established an Athletic Facility Improvement Fund under Article 39 of the 2012 Annual Town Meeting. The purpose of this fund is to allow the Town, from time to time, by appropriation, to reserve funds for the design, maintenance, renovation, reconstruction, or construction of athletic facilities.
- 2. For the purpose of the fund, the term "athletic facility" shall refer to any Town-owned building, structure, pool, synthetic and natural grass turf playing field or ball diamond, and associated grounds and parking areas whose primary purpose is for organized athletic events for Needham children, adults and public school teams.

E. Debt Service Stabilization Fund

1. In accordance with the provisions of M.G.L. c. 40 Section 5B, as amended by Section 14 of Chapter 46 of the Acts of 2003, and as further amended by Section 19 of Chapter 140 of the Acts of 2003, the Town of Needham has established a Debt Service Stabilization Fund to allow the Town, from time to time, by appropriation, to reserve funds to pay the debt service for engineering and design, renovation, reconstruction or construction of Town facilities.

Approved May 1991; Revised December 20, 2005; Revised May 11, 2010; Revised October 8, 2013; Revised December 20, 2016.

DEBT MANAGEMENT POLICIES

- 1. Proceeds from long-term debt will not be used for current, ongoing operations.
- 2. The Town will strive to limit total debt service, including debt exclusions and self-supporting debt, to ten percent (10%) of gross revenues.
- 3. The Town will allocate or reserve three percent (3%) of projected General Fund revenue (e.g. property taxes less debt exclusions, state aid, and local receipts) for debt service.
- 4. The Town will limit annual increases in debt service to a level that will not materially jeopardize the Town's credit rating.
- 5. For those previously authorized bonded projects with residual balances, the Town Manager shall propose the reallocation of these balances for other capital projects in conformance with MGL Chapter 44, Section 20.
- 6. For those previously authorized projects funded with available revenue (tax levy or reserves), that have residual balances in excess of \$5,000, the Town Manager shall propose the reallocation of these balances for other future capital projects in conformance with MGL Chapter 44, Section 33B. This practice will avoid abnormally inflating general fund surplus with one-time receipts.
- 7. For those previously authorized projects funded with available revenue (tax levy or reserves), with residual balances of less than \$5,000, the Assistant Town Manager/Finance Director may authorize the Town Accountant to close these balances to the appropriate fund surplus.
- 8. The Town will attempt to limit bond sales in any calendar year to \$10,000,000 in order to maintain bank qualifications and thereby receive lower interest rates on bonded debt.
- 9. Long-term borrowing will be confined to capital improvements too expensive to be financed from current revenues. In general, the Town will attempt to finance purchases costing less than \$100,000 with operating revenues.
- 10. Bonds will be paid back within a period not to exceed the expected useful life of the capital project.
- 11. To the extent practicable, user fees will be set to cover the capital costs of enterprise type services or activities whether purchased on a pay-as-you-go basis or through debt financing to avoid imposing a burden on the property tax levy.
- 12. Ongoing communications with bond rating agencies will be maintained, and a policy of full disclosure on every financial report and bond prospectus will be followed.

Approved May 1991; Revised December 1998, April 7, 2009

RETAINED EARNINGS POLICY FOR WATER AND SEWER ENTERPRISE FUNDS

It shall be the policy of the Board of Selectmen to maintain a level of unreserved retained earnings sufficient to address the financing of: working capital; revenue shortfalls; unanticipated increases in MWRA wastewater assessments; and unanticipated and emergency expenditures.

Unreserved retained earnings are cumulative surplus funds, as certified by the Massachusetts Department of Revenue, that are available for appropriation by Town Meeting to support any capital expense of the enterprise or to reduce user charges.

The rationale for, and the calculation of, unreserved retained earnings to be maintained by the Town are described below and are referred to as the "Liquidity Method" and the "Credit Quality Method." Retained earnings targets shall be calculated using both methods, and shall be set using the method which represents the higher number in any given year. Under the Liquidity Method, the total amount of retained earnings to be maintained shall be equal to 80 percent of the sum of the following individual calculations. The factor of 80 percent is based on the assumption that the likelihood of all factors occurring in one fiscal year is small; therefore there is no need to maintain one hundred percent of the calculated level of retained earnings. Under the Credit Quality Method, the total amount of retained earnings should not be less than fifteen percent of the operating revenue of the most recent audited fiscal year.

Liquidity Method

<u>Working Capital</u>: For those periods where monthly expenses exceed available cash, the water and sewer enterprises must have access to working capital to finance operations. In the absence of retained earnings, operations would require the use of General Fund cash which would reduce General Fund cash available for investment, and consequently reduce General Fund Revenue. To avoid the use of General Fund cash as working capital for the water or sewer operations, retained earnings shall be maintained at a level to provide sufficient working capital to finance the operations of these enterprise funds. The amount retained for this purpose shall be equal to the average of the largest monthly operating deficit of the prior three years.

<u>Consumption Contingency</u>: Annual water and sewer revenue is a function of the amount of water purchased by customers. If, in any year, purchases are less than projected, a revenue shortfall will occur. Retained earning shall be maintained at a level sufficient to offset any loss in revenue due to unanticipated decreases in purchases. That level shall be equal to the difference of the consumption used for rate making purposes versus the lowest level of consumption for the prior six fiscal years, multiplied by the current sewer rates and water rates shown as Step 3 of the Town's step rate structure. Step 3 is selected as it generally represents the point at which discretionary purchases of water begin. The scenario envisioned here is a wet year in which customers will not need to make discretionary purchases of water.

<u>MWRA Assessment Mitigation</u>: The Town's MWRA wastewater assessment is levied on a fiscal year basis, yet it is a function of the volume of effluent discharged into the MWRA system in the prior calendar year. The Town's wastewater system is subject to high levels of infiltration and inflow (I/I) given its age. Infiltration and inflow can substantially increase the volume of effluent

discharged into the MWRA system. Following a year in which high levels of I/I occur, the Town's MWRA assessment will increase at a rate that substantially exceeds the average increase for all MWRA members. An increase of this magnitude can adversely affect rates charged to Town customers. Consequently, retained earnings shall be maintained at a level sufficient to mitigate rate increases needed to fund large increases in the Town's assessment. That level shall be equal to the largest annual amount - for the prior six year period – by which the average rate of increase in assessments for all MWRA members exceeds the rate of increase in the Town's assessment, multiplied by the most current MWRA assessment.

<u>Unanticipated Budgetary Fluctuation</u>: Retained earnings shall be maintained at a level sufficient to fund unanticipated or emergency capital or operating expenditures. It shall be a goal to maintain an amount equal to 6% of the annual sewer operating budget and 10% of the annual water-operating budget.

<u>Restoration of Depleted Retained Earnings</u>: If, in any year, retained earnings fall below the targets established by this policy, it shall be the policy of the Board of Selectmen to set future rates to restore retained earnings to the target level over the following three year period.

Adopted by the Needham Board of Selectmen on April 20, 1999; revised June 6, 2003, revised January 12, 2010

RETAINED EARNINGS POLICY FOR THE SOLID WASTE ENTERPRISE FUND

It shall be the policy of the Board of Selectmen to maintain a level of unreserved retained earnings sufficient to address the financing of: working capital; unanticipated and emergency expenditures; revenue shortfalls; depreciation expense; pollution control surcharges; and unanticipated increases in the recycling costs.

Unreserved retained earnings are cumulative surplus funds, as certified by the Massachusetts Department of Revenue. In proposing the annual Solid Waste Disposal/Recycling operating budget, the Board of Selectmen shall recommend to Town Meeting the use of retained earnings that are available for appropriation by Town Meeting to support any capital expense of the enterprise or to reduce user charges, or both, as provided by State Law.

The rationale for, and the calculation of, unreserved retained earnings to be maintained by the Town are described below and are referred to as the "Liquidity Method" and the "Credit Quality Method." Retained earnings targets shall be calculated using both methods, and shall be determined using the method which represents the higher number in any given year. Under the Liquidity Method, the total amount of retained earnings to be maintained shall be equal to 80 percent of the sum of the individual calculations for working capital, unanticipated and emergency expenditures, revenue shortfalls, pollution control surcharges, and, unanticipated increases in the recycling costs and 100 percent of cumulative depreciation expense net any amounts appropriated for equipment replacement. The factor of 80 percent is based on the assumption that the likelihood of all factors occurring in one fiscal year is small; therefore there is no need to maintain one hundred percent of the calculated level of retained earnings. The use of a factor of 100 percent for depreciation expense is based on the assumption that all of these funds will be needed for equipment replacement. Under the Credit Quality Method, the total amount of retained earnings should not be less than fifteen percent of the operating revenue of the most recent audited fiscal year.

Liquidity Method

<u>Working Capital</u>: For those periods where monthly expenses exceed available cash, the RTS enterprise must have access to working capital to finance operations. In the absence of retained earnings, operations may require the use of General Fund cash which would reduce General Fund cash available for investment, and consequently reduce General Fund Revenue. To avoid the use of General Fund cash as working capital for the RTS operation, retained earnings shall be maintained at a level to provide sufficient working capital to finance the operations of this enterprise fund. The amount retained for this purpose shall be equal to the average of the largest cumulative monthly operating deficit of the prior three years.

Further, any general fund support of the RTS enterprise fund shall be made on a 1/12 basis throughout the fiscal year to preclude the RTS fund's use of general fund cash before the need truly exists.

<u>Reserve for Unanticipated and Emergency Expenditures</u>: Retained earnings shall be maintained at a level sufficient to fund unanticipated or emergency capital or operating expenditures as recommended to the Board of Selectmen annually by the Director of

the Department of Public Works and the Director of Finance.

<u>Reserve for Revenue Shortfall</u>: Annual RTS revenue is, in part, a function of the amount of solid waste disposed of by Town residents. If, in any year, the amount disposed is less than projected, a revenue shortfall may occur. Retained earning shall be maintained at a level sufficient to offset any loss in revenue due to unanticipated decreases in disposal.

<u>Reserve for Depreciation Expense</u>: Annually, the Director of Finance shall procure from the Director of Public Works, an inventory of all capital equipment used to support the operation of the RTS. This list shall be comprised of those pieces of equipment that cost \$50,000 or less and will include the purchase price and estimated useful life of each piece. Based on this information, the annual depreciation expense for each piece shall be calculated and revenues shall be raised to finance this expense. At the end of each fiscal year, the amount of revenue raised to offset depreciation expense shall constitute a reservation of retained earnings for the future replacement of capital equipment and shall be added to existing reservations attributable to prior years' depreciation. The purpose of this policy is to limit annual increases or decreases in RTS fees to fund small capital replacement.

<u>Reserve for Pollution Control Surcharge</u> - The Town's contract with Wheelabrator/Millbury for the tipping of solid waste contains a provision that allows Wheelabrator/Millbury to impose a pollution control surcharge on the Town to recoup the costs of installing pollution control equipment required by state and federal regulatory agencies. Retained earnings shall be maintained at a level needed to finance one year of pollution control surcharges imposed on the Town. Based on a surcharge imposed in FY92, that level shall be calculated annually at an amount equal to 3% of the current tipping fee multiplied by the tonnage tipped at the Wheelabrator Facility in the prior fiscal year.

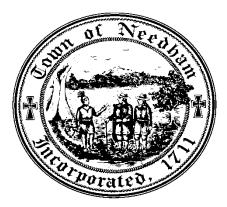
<u>Reserve for Unanticipated Increases in the Recycling Market</u> - Notwithstanding any contract the Town may have for the collection and disposal of recyclable material collected at the RTS, the volatile nature of the recycling market poses the possibility that any contractor with whom the Town has an agreement could go out of business on short notice, leaving no alternative but to pay current market prices for disposal of recyclables. This exposure shall be calculated annually by the Directors of Public Works and Finance and shall be based on a comparison of costs reflected in any of the Town's active recycling contracts and the spot market for tipping and hauling at the time of this annual assessment. The amount of the exposure shall be recommended to the Board of Selectmen as a reservation of retained earnings.

<u>Restoration of depleted Retained Earnings</u>: If, in any year, retained earnings fall below the targets established by this policy, it shall be the policy of the Board of Selectmen to set future rates to restore retained earnings to the target level over the following three year period.

Approved by the Needham Board of Selectmen November, 1999; revised January 12, 2010

TOWN OF NEEDHAM

Fiscal Year 2019 - 2023 Capital Request Guidelines



Released August 1, 2017

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FY2019 - FY2023 CIP SUBMISSION CHECKLIST

- ____1. Read the Guidelines.
- ____ 2. Attend the Overview Session (9:00 A.M. Thursday, August 3, 2017 at the Town Hall).
- 3. Complete the required forms. If any amount in the capital plan from <u>last year</u> (FY2018-FY2022) has changed, you need to make the change and explain why the amount has changed. Any capital submission that was <u>not recommended</u> for funding in the FY2018-FY2022 plan would need to be resubmitted (on a new form) if you want it to be considered for inclusion in the FY2019-FY2023 capital plan; projects that were not recommended <u>will not automatically roll over to the new CIP</u>. All forms can be found on the Common Drive in the FY2019 Budget Files folder. If you cannot access the file, please contact the Assistant Town Manager/Director of Finance to make other arrangements.
- 4. Vehicle Request (CIP-VR) forms are due back to the Finance Department by Friday, August 11, 2017. Any vehicle that was scheduled to be replaced for FY2019 but the forms are not properly submitted will NOT be considered for funding.
- ____ 5. Review all your narratives, to ensure they are written for the layperson.
- ____ 6. Re-check all figures all costs should be rounded UP to the next whole dollar. The cost should be based on current information. Re-check all totals to make certain they total correctly.
- ____7. Submit all final capital request forms electronically by posting under the designated capital submission folder. Completed requests are due by <u>12 Noon Friday, September 8, 2017</u>.
- ____8. Send an email to <u>ddavison@needhamma.gov</u> indicating that you have submitted your Department's capital requests and the total number of capital project requests forms you have submitted.
- ____9. Prepare for your appointment to discuss your Department's requests. The schedule will be distributed at the overview sessions.

KEY DATES FOR THE FY2019 BUDGET PROCESS

Date			Activity
August	1	2017	Capital improvement plan guidelines are released.
August	3	2017	Capital submission overview session held at 9:00 A.M. Thursday, August 3, 2017 at Town Hall in the Powers Hall.
August	11	2017	Deadline to notify another department of a capital request which requires assistance or input to properly submit a request.
August	11	2017	Vehicle Request Forms due back to Finance Department by 12 Noon.
August	15	2017	Town Manager's budget consultation with the Board of Selectmen
September	12	2017	Town Manager's budget consultation with the Board of Selectmen
September	8	2017	Capital Requests Due
September	6	2017	Town Manager's budget consultation with the Finance Committee
September	25	2017	Budget guidelines released
September	28	2017	Budget submission review sessions at Town Hall in the Great Plain room – four sessions.
October	2	2017	Special Town Meeting
October	6	2017	Deadline for a department to submit budget request to another department, e.g., building maintenance needs, technology needs, etc.
October	10	2017	Town Manager's budget consultation with Board of Selectmen.
October	27	2017	FY2019 department spending requests are due.
November	14	2017	Town Manager's budget consultation with the Board of Selectmen
December	13	2017	Department spending requests are due to Finance Committee from the Town Manager and School Superintendent.
December	19	2017	Board of Selectmen votes CIP recommendation.
January	2	2018	FY2019 – FY2023 Capital Improvement Plan is released.
January	2	2018	Town Manager's budget consultation with the School Committee.
January	31	2018	Town Manager's Balanced Budget Due to Finance Committee
February	5	2018	Warrant articles for 2018 Annual Town Meeting are due to the Board of Selectmen.
February	22	2018	Finance Committee's FY2019 draft budget is due to the Town Manager.
March	15	2018	Finance Committee's budget recommendations are due for inclusion in the ATM Warrant.
April	10	2018	Annual Town Election
Мау	7	2018	Annual Town Meeting
July	1	2018	START OF FY2019

CAPITAL IMPROVEMENT PLAN INTRODUCTION

Under section 2.2.2 of the Town's General By-laws the Town Manager is required to prepare and present an updated Capital Improvement Plan. The text of the relevant By-law is as follows:

2.2.2.1 All boards, departments, committees, commissions and officers of the town shall annually, at the request of the Town Manager, submit to him or her in writing a detailed estimate of the capital expenditures required for the efficient and proper conduct of their respective departments and offices for the ensuing fiscal year and the four year period following thereafter. The Town Manager, after consultation with the Board of Selectmen, shall submit in writing to the Board of Selectmen a careful, detailed estimate of the recommended capital expenditures for the aforesaid periods, showing specifically the amount necessary to be provided for each office, department and activity and a statement of the amounts required to meet the debt service requirements or other indebtedness of the town. The Selectmen shall transmit a copy of the capital budget to the Finance Committee along with the Board of Selectmen's recommendations relative thereto. The Selectmen shall transmit the capital budget to the Finance Committee no later than the first Tuesday after the first Monday in January.

2.2.2.2 A capital expenditure is defined as the acquisition, construction, renovation, betterment or improvement involving land, public buildings and facilities; water and sewer system laterals, mains, and appurtenances; and equipment or vehicles; provided the cost is \$25,000 or more and the improvement will have a useful life of five years or more; or any planning, feasibility, engineering or design study in preparation for such capital expenditures.

2.2.2.3 The Capital Improvement Plan shall include: (a) a list of all capital improvements proposed to be undertaken during the next five years, together with supporting data; (b) cost estimates, methods of financing, and recommended time schedule; and (c) the estimated annual cost of operating and maintaining any facility to be constructed or acquired. The first year of the Capital Improvements Program shall constitute the proposed capital improvements budget for the coming fiscal year and the ensuing four years of the plan are included for planning purposes.

All questions regarding the instructions, Capital Improvement Plan request forms, or project financing should be directed to the Assistant Town Manager/Director of Finance.

AN OVERVIEW TO THE CAPITAL REQUEST FORMS

<u>Please do not change</u> any **margin settings** or the **font styles or sizes** [the primary font is CALIBRI 9]. They have been predetermined so that the Capital Improvement Plan will have a uniform look throughout, and can be more easily bound so that text will not be hidden. If you need or want to bring attention to a particular word, phrase, or sentence you may **bold** or <u>underline</u> as appropriate. You may also use highlighting or *italics*, but please be aware that they don't photocopy as well. The two text boxes (in the CIP-CPR form) will expand as you type, you are not limited to default box size. Remember to use whole dollar amounts and to have "\$" precede any dollar figure so it is not confused with a numerical entry.

Capital Request Forms

The capital request forms are to be used at the department level. Departments may, but are not required to, prepare forms on a divisional level as well.

CIP-CPR: <u>Capital Project Request</u> – this form is to be used for all capital requests **except for vehicles**. The form is to put forward all requests for purchase of equipment (excluding rolling stock), furniture, machinery, technology, or other items that satisfies the capital expenditure definition. MGL. Chapter 30B procurement law usually, but not always, governs these purchases.

The CIP-CPR form is to be used to request improvements to buildings and other public facilities, or projects that are upgrading a specific feature or operational system of a building (e.g., roof replacement, bathroom upgrade, boiler replacement, floor replacement, window or door replacements, etc.). These type projects will fall under the public building construction (Chapter 149) and likely the designer selection (Chapter 7) procurement statutes. Any individual project request that repairs, replaces in-kind, or upgrades obsolete elements to current standards involving multiple aspects to allow a fixed asset to continue to be used for its intended purposes and has a total cost of less than \$500,000 should use this form.

The CIP-CPR form is also to be used to submit a capital request that is extraordinary in scope, size, and/or cost greater than \$500,000. Primarily involves the purchase, design, and/or construction of a new public building, facility, or expansion of infrastructure, or a substantial change to an existing building or facility. Any major repair project that could be viewed as facility renovation that modifies multiple elements of a fixed asset to accommodate new, expanded, or relocated occupancies as required to support goals of the Town should be requested using this form.

The form will also be used for regular ongoing infrastructure improvement programs for existing systems and networks (e.g., roads, sidewalks, bridges and culverts, water and sewer lines, system operation refreshing such as filter in treatment plants). These projects usually will be governed by public works (Chapter 30) procurement laws.

This form may be used to request a study or long-range plan to look into an identified problem that may require a capital outlay, the feasibility of doing a project, or updating an existing or developing a new long-range plan for major systems or facility improvements. Such a request may seek funding in order to secure an independent study of a capital need and review alternatives, or develop cost estimates and scenarios that then could be used as a resource to submit a capital request in the future. This approach should provide more solid data and reference materials in order to allow stakeholders to have meaningful dialogue on a proposal.

<u>Important</u>: do not submit non-dependent dissimilar capital together in the same request. Equipment, building, and infrastructure investments <u>are</u> considered separate and unique capital requests. You should include them in a single request when they are directly related, e.g., furnishings for a building construction project, or combined improvements to a sewer pump and the building that it is housed.

Any capital equipment replacement request should be accompanied with a completed **Designation of Surplus** form for each capital equipment item that the department is seeking funding for FY2019. The forms and instructions can be found on the common drive in the **Finance Policies and Procedures** folder. Any questions about how to complete the form may be directed to the Assistant Town Manager/Director of Finance.

Finally this form would be used to identify other projects that the requester does not want to submit for an official review for funding or is unable to provide the required information in order to submit a formal capital request. Projects will be considered as submitted but will not be reflected in any of the five-year funding request recommendation schedules. However, only projects that would involve the construction or reconstruction of a public building or infrastructure purchase of land or buildings, or participation in a regional capital outlay would be considered a future project request.

CIP-VR: <u>Vehicle Request</u> – This form is to be completed and submitted to the Finance Department for any

vehicle that the Department seeks to have replaced in FY2019. You must identify any change to the current preliminary replacement schedule for vehicles between FY2020 and FY2024. The Town submits the vehicle rolling stock capital as a single request. The Finance Department and subsequently the Town Manager will rely upon the Department to provide detailed information regarding the current use and condition of the vehicle to be replaced, and what purpose and function does the vehicle play in the running of the Department's operations. The form contains specific information about the vehicle that is under the control of the department. Some information should not change (e.g., vehicle identification number), other information will change (e.g., mileage/hours of operations), and other information may have changed (e.g., unit number). This form is used to update the master list which is maintained to track where equipment is stored and the insurance coverage. The form is **due back to the Finance Department August 11, 2017.**

Capital Project Request CIP-CPR Form This is an Excel Form Instructions

Purpose of this form is to provide the required information for the CIP Review Team to determine the purpose, need, and costs associated with the capital purchase or improvement and to address the merit, scope, cost, and ongoing operational expenses that may be connected project.

General Information

- 1. **Project Title:** Provide a short descriptive title indicating the nature of the request, e.g., Mitchell School Classroom Furniture, Claxton Bath House Roof Replacement, Pollard School Door Replacement, Water Tank Restoration, or Central Avenue Sewer Lateral Replacement.
- 2. **Fiscal Year:** Indicate the fiscal year for which funding is being requested from the drop down menu. For a multiyear funding request, indicate the first year that funding is requested.
- 3. **Purpose:** Indicate the primary purpose of this request from the drop down menu.

Acquisition: Select this option if the primary use of funds is to purchase an asset, i.e., land, building, equipment, technology, etc.

Construction: Select this option if the primary use of funds will be for construction or reconstruction of buildings, additions to such buildings, remodeling, reconstructing or making extraordinary repairs to public buildings, for landscaping, paving and other site improvements of public property; for the construction or reconstruction of bridges, drainage systems, roads, sidewalks, and other public ways; for the construction or extraordinary repairs of sewers, sewerage systems and sewage treatment and disposal facilities; for the construction or reconstruction or reconstruction of filter beds, standpipes, pumping stations, water mains and tanks.

Design/Engineering: Select this option if the primary use of funds will be for the cost of architectural services for plans and specifications for any proposed building, additions to buildings, or extraordinary repairs to existing public buildings; for engineering services for any public infrastructure improvement, expansion or redevelopment.

Feasibility Study: Select this option if the primary use of funds will be for a feasibility study of a specific future project, e.g., conducting groundwater inventory and analysis of the Town's water supply, including pump tests and quality tests relating to the development of using groundwater as an additional source or a new source of water supply.

4. **Classification:** Indicate the asset classification which project primarily falls under from the drop down menu.

Building: Building is defined as a permanent enclosed structure occupied by a Town or School department, or planned to be used by a Town or School department, e.g., Elementary School, Middle School, Public Safety Building, Senior Center, or Administrative Offices. This classification also includes something designed, built, installed, etc., to serve a specific function affording a convenience or service: seasonal buildings (e.g., park bathrooms, concession stand).

Equipment: Equipment is defined as a single item or single purchase with a total cost of \$25,000 or more, is freestanding and has a use life of five (5) or more years. This is tangible property (other than buildings, facilities, infrastructure, and land) which is used in the operation of town/school activities. Examples of equipment include devices, machines, and tools. It also includes furniture, fixtures, or other equipment that are not permanently connected to the structure of a building, facility, or the utilities (desks, chairs, equipment, tables, bookcases, and movable partitions). Also equipment for streets and other public areas, such as signs, benches, or litter bins. This category also encompasses large pieces of equipment designed for construction and earthwork, for aggregation and recycling, asphalt and concrete, for forestry and wood processing, or for snow and infrastructure maintenance. However, we separately classify Technology; refer below for the definition.

Infrastructure: Road, bridge, and sidewalks, drainage systems, sewer laterals or systems, or water supply distribution systems.

Land: Purchase or improvements to land, e.g., baseball field, football field, playgrounds, and walking trails. **Technology**: Hardware, networking systems, communication systems, (including wireless systems and software).

5. **Status:** Indicate the status for this request from the drop down menu.

New Request: Select this option for a capital request that <u>did not</u> appear in the prior CIP. In most instances, this would be a capital request for the fifth year of the CIP (2023) as requests for the first four years (2019 – 2022) should have been previously disclosed in the prior CIP.

Amended Request from the Prior CIP: Select this option for projects that were included in the prior CIP, but the information, timing, details, costs, etc. have been changed from that which appeared in the prior CIP.

Partially Funded Request: Select this option for a project that has been funded in part from a prior request. This is usually the case for building projects where the design/engineering was funded in a prior year and now the construction funding is being sought.

Same Request from the Prior CIP (no Changes): Select this option for a project that appeared in the prior CIP and the information has NOT changed.

Informational Only Request Details Incomplete: Select this option to identify a project that the requester does not want to submit for an official review for funding or is unable to provide the required information in order to submit a complete capital request. The project request will be considered as submitted but will not be reflected in any of the five-year funding request recommendation schedules. Only projects that involve the construction or reconstruction of a public building or infrastructure, the purchase of land or buildings, or

participation in a regional capital outlay would be considered as a future project request. You must indicate the Fiscal Year (see item #2) that the Department will formally present the capital request.

- 6. **Department:** Indicate the name of the department making the request from the drop down menu. If the request comes from more than two departments and/or boards or committees, select the department that will be the lead.
- 7. **Supports:** Indicate the primary governmental function that the capital asset(s) will support from the drop down menu.

Community Services: Functions that provide direct services to residents, visitors, or businesses in the Town. Community services include public health, senior services, youth services, and veterans' services.

Culture and Leisure: Functions that provide cultural and leisure opportunities for Needham residents and visitors. This would include athletics, historic preservation, libraries, parks and trails.

General Government: General Government serves as the support function, assisting all Town Departments in the conduct of their daily operations and serves as the business and residential development, land use planning, conservation, and economic development for the Town. General Government functions include the Board of Selectmen, the Town Manager's Office, Human Resources, Town Clerk and Elections, Town Counsel, Accounting, Budgeting and Finance, Treasury and Collections, Planning and Land Use, Information Technology Center, and non-departmental.

Public Education: Public education serves the public educational needs of Needham's children and adults. Public Education is comprised of the Needham Public School and Minuteman Regional Vocational High School.

Public Safety: Public Safety serves as the safety and security function, providing assistance to all Town residents, visitors, and business with life and property protection. Public Safety is comprised of Animal Control, Police, Parking Enforcement, Traffic Supervisors, Fire, Fire Prevention, Fire Training, and Emergency Management, Emergency Medical Services, and Building Code Enforcement and Weights and Measures.

Transportation Network: Functions that provide for the management, travel, support of private and public transportation. This includes roads, bridges, sidewalks, parking lots, road and pedestrian intersections, bicycle paths, movement, and buses.

Utilities: Functions that provide for the supply, treatment, and distribution of clean water, sanitary sewers, stormwater management, the collection, processing, and removal of trash, recyclables, and hazardous waste. **Other:** Functions not otherwise falling into one of the above categories. Please explain under the **Project Description and Considerations** section of the capital form.

8. **Partners:** Disclose any other departments, boards, and/or committees that have a material role in making the request or carrying it out should it be approved. Also disclosed any third party partners that will financially participate in the funding of project. Explain how this relationship is to work under the **Project Description and Considerations** section of the capital form.

9. **Useful Life:** Indicate the estimated useful life of the asset from the drop down menu.

Less than five (5) years – DOES NOT QUALIFY AS CAPITAL. More than five (5) years but less than eight (8) years Between eight (8) and twelve (12) years Between twelve (12) and eighteen (18) years Between eighteen (18) and twenty-five (25) years More than twenty-five (25) years

- 10. **Parameters:** Review and answer the questions regarding the capital request by marking selecting the drop down menu to the right of the question under the Response column. Please provide responses to the following questions (any **YES** response **must** be explained under **Project Description and Considerations** section of the form):
 - 1. Are there any costs to bid, design, construct, purchase, install, implement, or otherwise complete the project which are **NOT** included in this request?
 - 2. Are there recommendations or costs identified by other departments which are **NOT** factored into the request? You are required to consult with the managers of the other Town and/or School departments before answering this question.
 - 3. Does this project require any permitting by any Town or State agency? Please indicate any Town boards and committees and or state agencies that permits or approvals must be obtained in order to commence with the project.
 - 4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request? All technology requests require the review and recommendation of the Information Technology Center (ITC). In most instances, the ITC will be tasked with the implementation of a capital technology project.
 - 5. If this request is for Building Improvements, has the Department communicated with the Building Maintenance (BM) division, and does BM support the request? All improvements must be supported and recommended by the Town's building maintenance division of Public Works. Projects with an estimated cost of \$500,000 or more are likely to be overseen and managed by the Public Facilities Construction Department.
 - 6. If funded, will additional permanent staff be required? Full time and/or part time. You must also state the number of FTE's (refer to #11).
 - 7. If funded, will the operating budget need to be increased to cover operating expenses? If operating expenses are paid from an external funding source (such as a revolving fund) the response should still view the funding source as an operating budget.
 - 8. If funded, will this project lower the requesting Department's operating costs?
 - 9. If funded, will this project require ongoing assistance from vendors at an additional expense to the Town which is NOT already budgeted? Examples include maintenance agreements, supplies, licensing rights, etc.
 - 10. If the project is **NOT** funded, will current Town revenue be reduced?

- 11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?
- 12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?
- 13. Is this a request in response to a Court, Federal, or State order?
- 14. Is this a request in response to a documented public health or safety condition?
- 15. Is this a request to improve or make repairs to extend the useful life of a building?
- 16. Is this a request to purchase apparatus/equipment that is intended to be permanently installed at the location of its use? Please consult with the Public Facilities Department before submitting a request to ensure that the request does not conflict with other requests.
- 17. Is this a request to repair or otherwise improve public property which is **NOT** a building or infrastructure? Examples include a playing field renovation, walking trail upgrade, a municipal parking lot, etc.
- 18. Will any other department be required to provide assistance in order to complete the project? This would be for services, financial assistance, or staff that would not usually be required of the department in carrying out its primary responsibilities. This would be beyond standard administrative or regulatory requirements of a department, i.e., bid preparation, contract execution, issuance of a building permit, etc.
- 19. If funded, will this project increase the operating expense for any other department?
- 11. **Total New FTE's:** Indicate the full time equivalent (FTE) number of employees that would be added if the requested project is funded. If no additional FTE's will result, enter "0". This relates to question six.
- 12. **Project Cost:** Enter the total amount requested for this project. This amount must equal the total from the Project Budget column from the Project Budget Elements table (see item 15) for details.
- 13. **How was the Project Cost Determined:** Indicate the primary factor used to determine the estimated project cost from the drop down menu. Was the estimated cost determined by use of a paid consultant or engineer, inhouse (staff), industry references, or from another source? Other sources may include a fixed price per unit multiplied by the number of units, or based on prior bids (contracts), construction industry reference guides, formula driven by project size (square footage multiplied by price per square foot), consultant or design specification documents, etc. Disclose the methods under the Project Description and Considerations section.

Current Contract Hired Consultant Industry References In-House Estimate No Estimate Has Been Determined

14. **Budget Impact:** Indicate the estimated annual impact on the operating budget from the drop down menu. The project will generate revenue in excess of cost The project should reduce the operating expenses Negligible impact on the annual operating expenses - less than \$5,000 May increase annual operating expenses - between \$5,001 and \$25,000 May increase annual operating expenses - between \$25,001 and \$50,000 May increase annual operating expenses - between \$50,001 and \$100,000 May increase annual operating expenses - by more than \$100,000

15. **Project Budget Elements:** Enter the dollar amount requested for each of the five fiscal years; for a project that may be requested for funding in the later years of the five-year CIP window, which may have a follow up appropriation beyond the fifth year, you should show those costs in year six or seven, as applicable. This would likely be a project design funding request which falls within the five year CIP window, but may have a construction appropriation request that is outside the five year period. However, in most instances, the funding request will be for a single fiscal year. However, equipment and facility improvements on a regular replacement schedule will probably require funding in more than one fiscal year and therefore should be explained under the **Project Description and Considerations** section. The requested amount is to include cost of the equipment, components and/or accessories, and incidental expenses. Incidental expenses may include items such as training, maintenance contract, start-up supplies, etc. The amount should also include acquisition, delivery, set up, and any other related costs required to procure and receive the equipment. Request for building, facility, or infrastructure improvements are to include the costs to complete the requested project. If the request is for a study, then only the cost to perform the study is necessary; however if the request is to replace a roof, both the engineering and construction costs are to be included in the request. Any extraordinary expense included in a request must be disclosed under the **Project Description and Considerations** section at the end of the form. Provide a dollar breakdown of the estimated cost for the request by the identified components.

Planning/Feasibility – are costs for consultants, professional services, materials and other resources required to develop a long range plan related to capital investment or a specific project.

Design & Engineering – this would be for professional services in the development of architectural and engineering documents, consulting services, design services, permitting assistance, contract management, inspectional services, and other associated services. The cost for a feasibility study should be reported under this line.

Land/ROW Acquisition – are costs for the purchase of real estate or the rights to use property (easements). **Site Preparation** – are costs for land improvements.

Construction Expenses – are the costs for the construction, including but not limited to, construction, restoration, labor and materials, indirect costs, but not so-called "soft costs".

Construction Management – are cost for construction management services.

Equipment – are costs for items such as office and school furniture, specialty items, construction and maintenance equipment, and vehicles. This would be for purchases which are usually stand-alone requests.

Furniture, Fixtures, and Equipment – are costs for such items acquired as part of a building or infrastructure improvement project but are not part of the construction costs. The supplies and materials that are used as part of the site work or construction are to be reported on those lines respectively.

Technology Software/Hardware - are the costs for capital investment in stand-alone technology systems and/or software which are not part of a building or infrastructure construction project that would routinely be provided by the construction contractor and reported under construction costs.

Other Expenses – this would be used to report other expenses that do not fall under one of the other expense lines or an expense. Example, if a project is proposed to be financed by debt, the total project budget should be multiplied by .05 and the calculated result (rounded to the nearest thousand, but not less than \$5,000) should be included in other expenses.

16. **Project Description and Considerations:** Provide a short descriptive narrative about the project. What is it, how did the request come about, and why it is needed. Describe the project you are proposing, its location, what type of work will be done; or if the request is for equipment explain the purpose and use of the item(s). Routine acquisitions may be briefer than a request to increase or introduce new equipment or a project that is new, unexpected, or extraordinary. Indicate whether the purpose of the project is to maintain, replace, enhance, or expand Town facilities or infrastructure. Clearly state whether the project is an acquisition, new construction, or renovation to an existing asset. Provide statistical data and reference any reports and/or studies that provide additional information as to the need, condition or cost. Provide the size and scope of the project, such as the square footage to be renovated in a building or the length of the roadway to be reconstructed. Multi-year and high dollar requests will require more information and specifics. Explain what alternative solutions have been examined, if any. If there is special funding available for the project (i.e., grant, state funding, donation,) please explain how the funds will be obtained and who will secure the funds. Your explanations for affirmative responses to the parameter questions are to be detailed in this section. Explain what may be the impact of not doing the project.

This information is expected to provide the narrative that is provided to Town Meeting in the warrant. Write for the layperson who may not be familiar with the history, purpose, or terminology. <u>Do not</u> use uncommon abbreviations or acronyms in your narrative without an explanation of its meaning.

17. **Supplemental Information:** This is an additional text box to provide information if the Project Description Considerations box space was insufficient to provide all the information. Project requests of an extraordinary nature will very likely require additional information than just a basic project description and the clarifications to your yes responses under the parameter section. You will probably need to use this section if the request is to acquire land or buildings or to newly construct or add to an existing building or facility, or will increase the annual operating costs by \$50,001 or more. Please contact the Assistant Town Manager/Director of Finance to

assist you in the preparation of items. Projects with an estimated annual budgetary impact of \$50,000 or more will require a detailed explanation of those costs. This would be supplied under the supplemental information box. These would be costs not currently in place or required. Provide the estimated additional full time equivalent (FTE) staff to operate and/or support the facility requested and the costs for any temporary personnel. For indirect costs contact the Finance Department for the appropriate factor. Provide an estimated cost for contracted services, supplies, and materials, and ongoing equipment needs for the project. Include an estimated impact on energy costs. Provide an estimate of any revenue that may be generated to offset operating and maintenance expenses (not the capital costs) that would be incurred if the project is approved. The revenue must be new or additional, which otherwise would not be generated if the project was not undertaken. Identify the revenue types and the amount expected from year by year. Please explain the analysis involved in preparing the revenue estimates. List any restrictions on the usage of the funds.

				Capital Proje	ect Request				
Project Title:	(Refer to Instr	uction #1)						Fiscal Year:	(Refer to #2)
Purpose:	(Refer to #3)	С	lassification:	(Refer to #4)		Status:	(Refer to #5)		
Department:	(Refer to #6)					Supports:	(Refer to #7)		
Partners:	(Refer to #8)					Useful Life:	(Refer to #9)		
				Parameters			· · ·		Response
1. Are there any c	costs to bid, design	, construct, purchase,	install, impleme	ent, or otherwise co	mplete the projec	t which are NOT ir	cluded is this requ	est?	(Refer to #10)
	-	osts identified by othe					·		(Refer to #10)
3. Does this project require any permitting by any Town or State agency?								(Refer to #10)	
4. If this request i	is for Technology,	has the Department co	ommunicated wi	ith ITC, and does ITC	support the reque	est?			(Refer to #10)
		rovements, has the De					and does BM supp	ort the request?	(Refer to #10)
6. If funded, will a	additional perman	ent staff be required?	?				Total New FTE's:	(Refer to #11)	(Refer to #10)
7. If funded, will	the operating bud	get need to be increas	sed to cover ope	rating expenses?					(Refer to #10)
8. If funded, will t	this project lower	the requesting Depart	tment's operatin	g costs?					(Refer to #10)
9. If funded, will t	this project require	e ongoing assistance f	rom vendors at a	an additional expen	se to the Town wh	ich is NOT already	budgeted?		(Refer to #10)
10. If the project is NOT funded, will current Town revenue be reduced?							(Refer to #10)		
11. Is specialized	training or annual	licensing required that	at the Town will	need to pay in orde	r to use the asset?				(Refer to #10)
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?							(Refer to #10)		
13. Is this a request in response to a Court, Federal, or State order?							(Refer to #10)		
14. Is this a request in response to a documented public health or safety condition?							(Refer to #10)		
15. Is this a request to improve or make repairs to extend the useful life of a building?							(Refer to #10)		
16. Is this a request to purchase apparatus/equipment that is intended to be permanently installed at the location of its use?							(Refer to #10)		
17. Is this a request to repair or otherwise improve public property which is NOT a building or infrastructure?							(Refer to #10)		
· · · · ·		equired to provide ass		· ·	oject?				(Refer to #10)
19. If funded, will		ase the operating exp						1	(Refer to #10)
Project Cost: (Refer to #12) How was the Project Cost Determined: (Refer to #13)									
Budget Impact:	(Refer to #14)								
	lget Elements	Project Budget	2019	2020	2021	2022	2023	2024	2025
Planning/Feasibil	•	\$0	(Refer to #15)		(Refer to #15)	(Refer to #15)			(Refer to #15
Design/Engineeri	0	\$0	(Refer to #15)	, , ,	(Refer to #15)	(Refer to #15)	• •	, ,	(Refer to #15
Land/ROW Acquis	sition	\$0	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	• •	(Refer to #15
Site Preparation		\$0	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	. ,	(Refer to #15
Construction		\$0	(Refer to #15)		(Refer to #15)	(Refer to #15)	• •		(Refer to #15
Construction Mar	nagement	\$0	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	• •	(Refer to #15
Equipment		\$0	(Refer to #15)		(Refer to #15)	(Refer to #15)	• •	• •	(Refer to #15
Furniture, Fixture	es, and Equipment	\$0	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15
Technology Hardy	ware/Software	\$0	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15)	(Refer to #15
Other Expenses		\$0	(Refer to #15)	· · · · ·	(Refer to #15)	(Refer to #15)	· · · ·	(Refer to #15)	(Refer to #15
TOTAL		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Section 6 - Appendix E - 17

Project Description and Considerations

(Refer to #17)

Supplemental Information

(Refer to #18)

Vehicle Request CIP-VR Form This is an Excel Form Instructions

- 1. **Assigned:** Indicate Department/Division which the vehicle is assigned from the drop down menu.
- 2. **Unit #:** Type in the Town assigned unit number of the current vehicle.
- 3. **Year:** Type in the model year of the current vehicle.
- 4. **Make:** Type in the make of the current vehicle.
- 5. **Model:** Type in the model of the current vehicle.
- 6. **Fuel Type:** Indicate the type of fuel used by the current vehicle from the drop down menu: Diesel, Electric, Gasoline, Hybrid, Not Applicable, or Solar. If the vehicle has no fuel source, e.g., a trailer you would select "Not Applicable".
- 7. **Plate #:** Type in the vehicle registration number (license plate) of the current vehicle.
- 8. **VIN:** Type in the vehicle identification number (VIN) of the current vehicle.
- 9. License: Indicate the type of license required to operate the current vehicle from the drop down menu. Class A: Any combination of vehicles with a Gross Combination Vehicle Weight Rating (GCWR) of 26,001 lbs. or more provided the Gross Vehicle Weight Rating (GVWR) of the vehicle(s) being towed is in excess of 10,000 lbs., except a school bus. With a Class A license and the appropriate endorsements, a driver may operate any vehicle covered within Classes B and C.

Class B: Any single vehicle with a GVWR of 26,001 lbs. or more, or any such vehicle towing another vehicle not in excess of 10,000 lbs. GVWR, except a school bus. With a Class B license and appropriate endorsements, a driver may operate any vehicle covered within Class C.

Class C: Any vehicle that is either less than 26,001 lbs. GVWR or any such vehicle towing a vehicle not in excess of 10,000 lbs. GVWR or a vehicle placarded for hazardous materials or designed to transport 16 or more persons, including the operator, except a school bus.

Class D: Any single vehicle or combination except a semitrailer unit, truck trailer combination, tractor, or truck having a registered gross weight in excess of 26,000 lbs., a bus, or a school bus.

Class M: Motorcycle. If operator has a Class D license, he or she may opt for a Class M endorsement on their driver's license.

License Not Required: A driver's license is not required to operate the identified vehicle.

- 10. Mileage: Enter the present mileage of the vehicle, if unknown type "NA".
- 11.**Hours:** Enter the present number of hours that the vehicle has been in operation (engine hours), if unknown type "NA".
- 12.**Reading Date:** Enter the date that the mileage/hours were read. The date MUST be provided.
- 13.**Expiration:** Enter the month and year that the current vehicle inspection sticker expires. This is the state mandated inspection.
- 14.**Disposal Intentions:** Indicate what the department's intentions are for the current vehicle from the drop down menu:

Auction/Trade = the request is to sell the vehicle at auction or use it as trade when acquiring the replacement vehicle. The final decision is made by the Finance Department so the Department should not assume any credit or reduction in price resulting from a trade. The estimated price should be based on no trade.

Not Applicable = "Not Applicable" should be selected when there is no current vehicle related to this request. **Retain** = the request is to retain the current vehicle in its present capacity; meaning that the department will increase the number of vehicles in regular use by the department.

Scrap = the request is that the vehicle should be disposed as scrap; it is unsafe for use or of limited value.

Transfer = the request is to transfer the vehicle to another department for use.

Pool Vehicle = the request is to retain the current vehicle to be used as a pool vehicle by the Town.

- 15.**Primary Functions:** Describe the primary functions (daily operations) that the requested vehicle will provide for the department and why the vehicle is needed. What other options did the department factor before making this request? Include information that will be helpful in determining why the request is being made and why you think the vehicle needs to be purchased.
- 16.**Funding Year:** Indicate the fiscal year for which funding is being requested from the drop down menu.
- 17.**Funding Amount:** Enter the funding amount requested. The form has been designed to calculate an estimate based on current pricing that you should use.

18.**Vehicle Type:** Indicate the type of vehicle being requested from the drop down menu:

Automobile Delivery Vehicle Emergency Response Flat Bed Truck Heavy Truck (trucks with a Gross Vehicle Weight (GVW) of 6,000 pounds or more) Light Truck (trucks with a Gross Vehicle Weight (GVW) under 6,000 pounds) Motorcycle Passenger Van School Bus Snow and Ice Equipment (this selection is for vehicles that are just meant for snow and ice removal, not vehicles that may be used in snow and ice removal operations) SUV (Sport Utility Vehicle) Tractor Trailer Van (which is not designed for passenger transport)

- 19. **Make:** Type in the anticipated make of the requested vehicle.
- 20.**Model:** Type in the anticipated model of the requested vehicle.
- 21.**Current Cost of Vehicle:** Type in the cost of the vehicle (not including attachments and special equipment which are required for the intended purpose but are not provided by the vehicle manufacturer). The cost should be current prices (2016). This figure and any amounts for special equipment and/or other costs will be used to calculate the estimated amount to be requested for the funding year. The estimated cost of the equipment has been calculated and is shown by fiscal year in the "Estimated Cost by Fiscal Year" column to the right). Please attach the documentation which shows how the current cost was determined.
- 22. **Special Equipment:** Describe any added equipment or special preparation which is required before the vehicle could be operational for the intended use. The additional cost to purchase and install/apply is to be disclosed in this box with the amount entered in the box to the right (refer to #23). Please attach the documentation which shows how the current cost was determined.
- 23. **Special Equipment Cost:** Enter the current cost of the special equipment identified to the left (refer to #22).

24. Other Cost: Describe any other expense related to this request which is not included in the vehicle price (refer to

#21) or the special equipment costs (refer to #22 and #23) and enter the cost to the right. Examples include, but not limited to, insurance coverage for the first year, additional paint and decal work, decommissioning costs for the asset being retired.

25.**Other Cost Amount:** Enter the other cost amount identified to the left (refer to #24).

		Vehicle Request			
CIP-VR					
Curr	ent Vehicle	Requeste	Estimated Cost by Fiscal Year		
Assigned	(Refer to #1)	Funding Year	(Refer to #16)	2018	
Unit#	(Refer to #2)	Funding Amount	Funding Amount (Refer to #17)		
Year	(Refer to #3)	Vehicle Type	(Refer to #18)	2020	
Make	(Refer to #4)	Make	(Refer to #19)	2021	
Model	(Refer to #5)	Model	(Refer to #20)	2022	
Fuel Type	(Refer to #6)	Current Cost of Vehicle*	(Refer to #21)	2023	
Plate #	(Refer to #7)			2024	
VIN	(Refer to #8)	(Refer to #22)	(Refer to #23)	2025	
License	(Refer to #9)	(Refer to #22)	(Refer to #23)	2026	
Mileage	(Refer to #10)	(Refer to #22)	(Refer to #23)	2027	
Hours	(Refer to #11)	(Refer to #22)	(Refer to #23)	2028	
Reading Date	(Refer to #12)	Subtotal	\$	0 2029	
Expiration	(Refer to #13)	(Refer to #24)	(Refer to #25)	2030	
Disposal Intentions	(Refer to #14)	(Refer to #24)	(Refer to #25)	2031	
Prima	ry Functions	(Refer to #24)	(Refer to #25)	2032	
		(Refer to #24)	(Refer to #25)	2033	
(Refer to #15)		Subtotal		<mark>0</mark> 2034	
		Total Current Cost		2035	
		* Vehicle cost for>	2016		

Additional Information to be Included in the Annual Town Meeting Warrant

VEHICLE CONDITION CRITERIA TABLE

Please use the criteria below to assess the vehicle's overall condition. As a rule of thumb, if a vehicle meets the criteria of one or more classifications, the lowest category should be attributed.

	Vehicle is in excellent mechanical condition, has glossy paint and perfect interior
	 ✓ Looks new ✓ Excellent mechanical condition ✓ Has not had paint or body work
EXCELLENT	 Shows no rust, no visible wear and tear, stains, no "chips" or "dings" Engine is clean, has no missing parts and no fluid leaks Tires exhibit no uneven wear patterns Has complete and verifiable service records Has passed annual vehicle and safety emissions inspection

	Vehicle is free of major defects and only has minor visual blemishes				
	✓ Has no major defects				
	✓ No major mechanical problems				
GOOD	\checkmark Paint is still shiny, body and interior may have minor blemishes, which should be easily repaired				
	\checkmark Has little or no signs of rust and very few visible interior or exterior defects				
	✓ May or will need reconditioning if re-sold				
	\checkmark Tires match and have substantial thread wear left				
	\checkmark Has passed annual vehicle and safety emissions inspection				

	Vehicle has some mechanical or cosmetic defects but is in dafe running condition
	✓ Reasonable running condition
	\checkmark Has some mechanical or cosmetic defects that need servicing. All issues must be repairable.
FAIR	\checkmark Paint, body and/or interior show visual flaws and need work performed by a professional
	✓ May have small rust, minor dents
	\checkmark May have defects in the engine or other mechanical systems
	✓ Tires may need replacement
	✓ Has passed annual vehicle and safety emissions inspection

	Vehicle has had severe mechanical and/or cosmetic defects				
	✓ Significant mechanical and/or cosmetic defects				
	✓ Is in poor running condition				
POOR	✓ Paint job is faded or missing				
	✓ Shows excessive rust				
	\checkmark May have problems that cannot be readily fixed such as damage frame				
	✓ Mileage cannot be confirmed				
	\checkmark Needs major repair in order to pass annual inspection				