

CAPITAL IMPROVEMENT PROGRAM

Page #

94	WATER FUND	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
95	Town Water System Improvements	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
96	Town/UNH Shared Water System Improvements	400,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000
98	Madbury Road Complete Streets Project - Water Line Replacement	710,000									
99	Rubber Tired Excavator Replacement (Cost Share with General Fund 75%/25%)						97,500				
100	Utility Truck Replacement (One Ton)								122,434		

CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2025-2034	PROJECT COST	\$75,000
DESCRIPTION	<i>Town Water System Improvements</i>	DEPARTMENT	<i>Public Works - Water</i>
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)			
Department Initiative			
DESCRIPTION (TO INCLUDE JUSTIFICATION)			
<p>The Town's water distribution infrastructure includes 29 miles of water main along with valves, hydrants, and appurtenances. Recognizing that a new ductile iron water main has an approximate useful life of 80 years, a water main replacement program targeting this timeframe is a prudent investment to ensure proper system operation. Given the lineal footage and age of the Durham's system, a replacement of approximately 1,900 lineal feet of water main each year at a cost of \$380,000 would be warranted. It is important to plan for these water main replacement programs proactively before failures occur. The goal of the Department's water system improvement program is to budget a minimum of \$75,000 annually and accumulate several years of funding, while identifying sections of the oldest water mains and replace them in conjunction with the Town's Road and Drainage Program. This is also done in coordination with other underground utilities. Projects requiring larger funding amounts that exceed this annual appropriation and previous accumulations will be included in the capital plan separately as needed. The reconstruction of Burnham Avenue is scheduled for FY27 and will include the replacement of its transite watermain.</p>			
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	-
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	75,000
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	75,000
FINANCING	OPERATING BUDGET	\$	75,000
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	75,000
IF BONDED:	NUMBER OF YEARS	N/A	
	TOTAL PRINCIPAL	\$	-
	TOTAL INTEREST	\$	-
	TOTAL ESTIMATED COST	\$	-



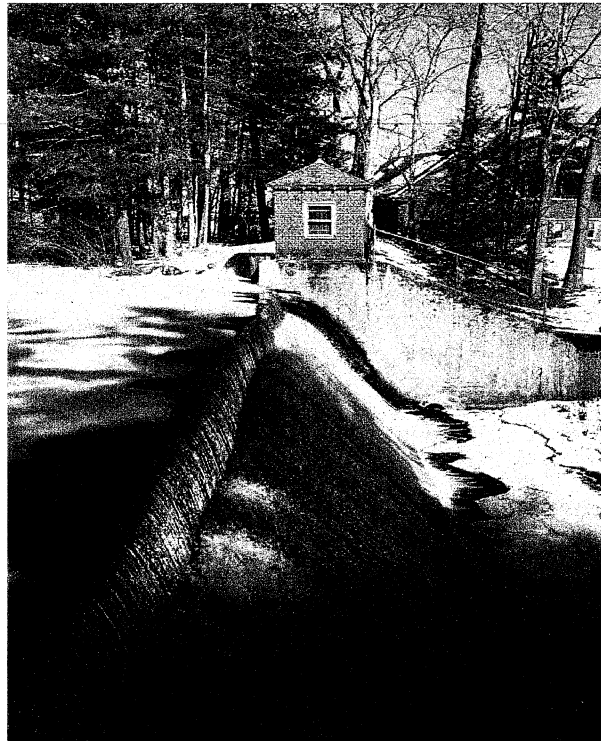
CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2025	PROJECT COST	\$400,000
DESCRIPTION	<i>Town/UNH Shared Water System Improvements</i>	DEPARTMENT	<i>Public Works - Water</i>
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)			
DESCRIPTION (TO INCLUDE JUSTIFICATION)			
<p>Durham Public Works was successful in applying for and receiving a congressionally directed spending request from the office of Senator Jeanne Shaheen titled "Town of Durham Generator Project" as part of the 2021 project solicitation. The sites for which emergency back up power will be provided include, 1) the Spruce Hole well - water pump station, 2) the Lee Well - water pump station, 3) the Durham Public Works campus and 4) the Durham Police Department. In addition, and outside of the grant funded project, the Lamprey River raw water pump station has been included in the backup generator project due to the critical nature of this primary water supply facility. Over the last several years Durham Public Works has worked with FEMA and the New Hampshire Department of Safety, Division of Homeland Security and Emergency Management (HSEM) to satisfy the necessary and extensive Legislative Pre-Disaster Mitigation (LPDM) and the FEMA Benefit/Cost Analysis requirements. The Town Council, scheduled a public hearing on April 17, 2023 to authorize the acceptance and expenditure of this funding through Resolution #2023-07, at which time the resolution was adopted. The project has now reached 90% design and the Department is finalizing specifications and bid packages for a late fall/winter bid and 2025 contract award. The engineer's opinion of probable cost has been generated and estimated at \$1,038,500. All sites supporting water operations which include the Spruce Hole well, the Lee well, the Lamprey river raw water pump station and Public Works site will be funded using existing Town/UNH Shared Water system funding and Town Water System Funding. The UNH funding requirement will be allocated at a 2/3 share, consistent with the existing Town and UNH shared water system agreement. The Public Works site, which supports water system operations, will utilize existing Town Water System Funding. The Police Department site will utilize the existing grant funding, along with supplemental funding in the amount of \$36,000 requested under a separate Fiscal Year 2025 capital funding item titled "Facility Infrastructure Improvements". This federal grant is complex nature and contains substantial reporting requirements, which include payment verifications and ongoing status reports. This would pose difficulties, from a reporting and invoice verification standpoint, if UNH were to be responsible for managing the project, since the grant was issued directly to the Town. Following discussions with UNH, it was agreed that it would be most efficient for Durham Public Works to manage this water and facilities project, with UNH to be billed their 2/3 cost share. The 2/3 share for which UNH is responsible would be budgeted within the "Town/UNH Shared Water System Improvements" capital budget request items. This \$400,000 budget request would have no financial impact on ratepayers as it is funded entirely by the University.</p>			
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	-
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	400,000
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	-
FINANCING	OPERATING BUDGET		
	UNH - CASH	\$	400,000
	BOND - TOWN PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	-
IF BONDED:	NUMBER OF YEARS		N/A
	TOTAL PRINCIPAL	\$	-
	TOTAL INTEREST	\$	-
	TOTAL ESTIMATED COST	\$	-



CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2026- 2035	PROJECT COST	\$70,000
DESCRIPTION	Town/UNH Shared Water System Improvements	DEPARTMENT	Public Works - Water
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)			
Department Initiative			
DESCRIPTION (TO INCLUDE JUSTIFICATION)			
<p>This capital project is for design and construction of jointly shared Town/UNH water distribution, storage and treatment assets. This proposed capital request represents the Town's contribution toward these improvements which is equal to 1/3 of the total project cost estimated at \$210,000 per year. The Town is in discussions with UNH to refine the water system improvement contract and project management process whereby the Town will budget within its capital plan the annual funding requirement. This value is</p>			
*Estimated costs are Town's Share of 1/3 of the total cost estimated at \$210,000 per year			
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	-
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	70,000
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	-
FINANCING	OPERATING BUDGET	\$	70,000
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	70,000
IF BONDED:	NUMBER OF YEARS		N/A
	TOTAL PRINCIPAL	\$	-
	TOTAL INTEREST	\$	-
	TOTAL ESTIMATED COST	\$	-

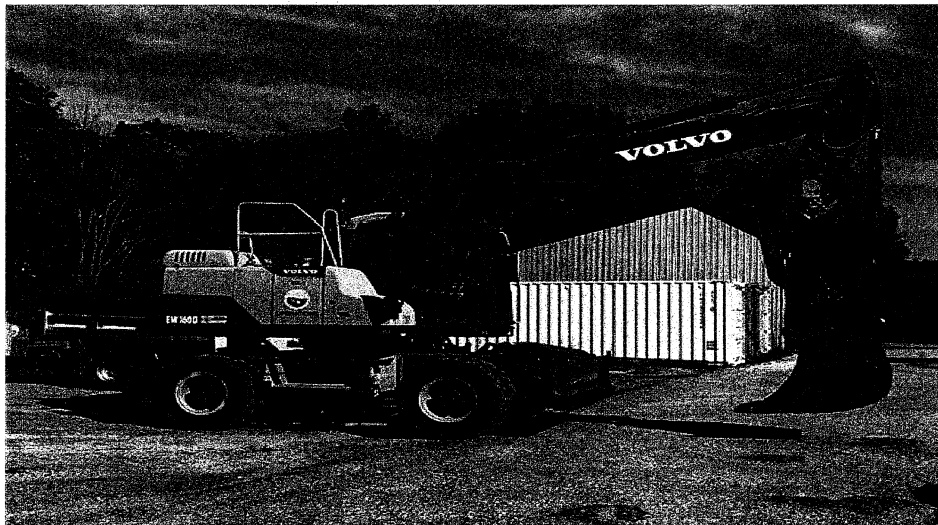


CAPITAL IMPROVEMENTS PROGRAM

PROJECT YEAR	2025	PROJECT COST	\$710,000
DESCRIPTION	<i>Madbury Road Water Distribution Complete Streets Project - Construction</i>	DEPARTMENT	<i>Public Works - Water</i>
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)			
Department Initiative			
DESCRIPTION (TO INCLUDE JUSTIFICATION)			
<p>Madbury Road is approximately 6,500 feet in length and serves as a major arterial roadway in Durham with Average Daily Traffic exceeding 4,500 vehicles. The roadway was transferred to Town ownership from the State of New Hampshire when Route 4 was upgraded many years ago. The roadway was last paved in 2009 at which time it received an overlay treatment. Currently the roadway is in poor condition with significant pavement raveling, delamination, longitudinal and alligator cracking, rutting, settlement, and base failure. The sidewalks and curb ramps are non-compliant, relative to ADA, and curb reveal is minimal or non-existent in some areas. The drainage system is undersized with drainage structures and drainage conveyance systems in a deteriorated condition. Also installed within the Madbury Road roadway corridor are water and sewer utilities owned and maintained by the Town. The watermain and water appurtenances extend from Main Street to Pendexter Road, with watermain primarily constructed of cast iron pipe with a high break history. Watermain between Main Street and Garrison Avenue has previously been replaced during the 2009-2010 time period. The water distribution system serves customers on Madbury Road, and extends down adjacent roadways and serves as a primary distribution line for these neighborhoods. On September 13th, 2021, the Town Council approved a contract award in the amount of \$1,142,898.00 to VHB Engineering to provide design engineering services for the complete reconstruction of Madbury Road. The Madbury Road design project team has taken a "Complete Streets" approach, which includes evaluating and constructing multi-modal transportation improvements where possible, including traffic calming and pedestrian and bicycle accommodations. The design will also include a sustainable environmental approach to construction of public infrastructure, incorporating low impact development stormwater features, and environmentally conscious construction techniques and materials. A robust public involvement component has been developed to ensure all stakeholder's perspectives are considered within the design and incorporated where possible. During the 2024 construction season the Town awarded a contract to Cardillo Construction to replace watermain from Garrison Road to Maple Street, inclusive of Madbury Court. Cardillo had made solid progress and has reached substantial completion ahead of schedule and on budget. The funding requested within the FY 2025 budget, along with existing funds, allows for the continued reconstruction of watermain from Maple Street, north toward Route 4 and is intended to complete the final phase of water main construction. Please note, with continued price escalation within the construction sector, the project limits may require adjustment consistent with available funding.</p>			
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	-
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	710,000
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	710,000
FINANCING	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	710,000
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	710,000
IF BONDED:	NUMBER OF YEARS		10
	TOTAL PRINCIPAL	\$	710,000
	TOTAL INTEREST	\$	117,150
	TOTAL ESTIMATED COST	\$	827,150

CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2027	EQUIPMENT COST	\$97,500
DESCRIPTION	<i>Replacement of Rubber Tired Excavator</i>	DEPARTMENT	<i>Public Works Operations/ Water</i>
DESCRIPTION (TO INCLUDE JUSTIFICATION):			
<p>The 2013 Volvo EW160D Rubber-Tired Excavator is scheduled for replacement in 2030. This is one of the most critical pieces of front-line equipment for Public Works projects and emergencies, delivering a multitude of indispensable benefits across various critical tasks and Divisions. The excavator's versatility allows it to be utilized across nearly all of our Public Works projects. It is irreplaceable when faced with water main breaks, performing roadside mowing, completing large and small drainage projects, excavating culverts, and roadside ditching. The machine's rubber tires add a valuable dimension to its capabilities, enabling it to be driven from site to site. This mobility feature eliminates the need for additional transportation equipment, streamlining logistics and reducing operational costs.</p> <p>The total cost for this piece of equipment is \$390,000. The cost is being shared 75% Operations and 25% Water Fund.</p> <p>Vehicle to be Replaced: 2013 Volvo EW160D Rubber-Tired Excavator</p>			
ESTIMATED COST	PURCHASE PRICE	\$	97,500
	ACCESSORIES*	\$	-
	LESS TRADE-IN**	\$	-
	NET PURCHASE PRICE	\$	97,500
	<i>*Accessories include lighting, radios, striping, misc. equipment.</i>		
FINANCING	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	97,500
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	97,500
IF BONDED	NUMBER OF YEARS		5
	TOTAL PRINCIPAL	\$	97,500
	TOTAL INTEREST (EST'D)	\$	8,775
	TOTAL PROJECT COST	\$	106,275



CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2032	VEHICLE COST	\$122,434
DESCRIPTION	1-Ton Utility Truck Replacement	DEPARTMENT	Public Works - Water
DESCRIPTION (TO INCLUDE JUSTIFICATION):			
<p>Durham Public Works is requesting funding in 2032 to replace the Water Division Chief Operator's 2022 Ford F-350 One-Ton Utility Truck is scheduled for replacement in 2032. This vehicle is utilized by the Water Department Chief Operator in the daily routine and emergency maintenance of the Town's public water system distribution network and appurtenances. This vehicle is equipped with a utility body that contains storage compartments to house the tools, equipment, and supplies necessary to complete these tasks effectively and efficiently. The truck is also outfitted with a one-ton crane for use in the maintenance of fire hydrants and the safe handling of water treatment chemicals, as well as a plow to clear snow and ice from accessway's to remote water system sites. This is the sole vehicle of the Water Division and is on a 10-12 year replacement plan.</p>			
Vehicle to be Replaced: 2032 Ford Utility Truck with utility body and crane.			
ESTIMATED COST	PURCHASE PRICE	\$	55,513
	ACCESSORIES*	\$	74,921
	LESS TRADE-IN**	\$	(8,000)
	NET PURCHASE PRICE	\$	122,434
	*Accessories include lighting, radios, striping, misc. utility equipment.		
FINANCING	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	122,434
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	122,434
IF BONDED:	NUMBER OF YEARS		5
	TOTAL PRINCIPAL	\$	122,434
	TOTAL INTEREST (EST'D)	\$	11,019
	TOTAL PROJECT COST	\$	133,453

