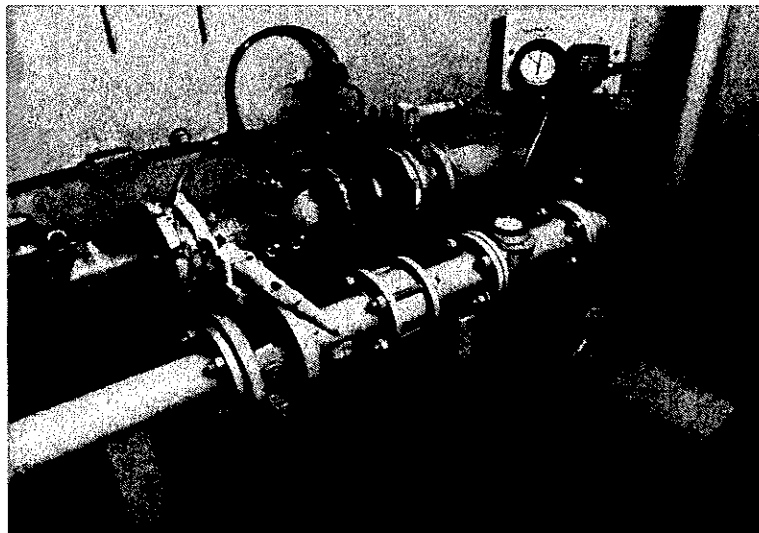


**2018-2027 TOWN COUNCIL
CAPITAL IMPROVEMENT PROGRAM**

	Description	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
101	Water Fund										
102	Technology Drive PRV Station	30,000									
103	Madbury Road Booster Pump Station	40,000									
104	Town/UNH Shared Water System Improvements	70,000	70,000	70,000	70,000	70,000					
105	Wiswall Dam Spillway		490,000								
106	Madbury Road Water Line Replacement			700,000	975,000						
108	Backhoe Replacement (Cost split w/Oper. & WW)					26,500					
109	One Ton Utility Truck Replacement					40,000					
	TOTAL WATER FUND	140,000	560,000	770,000	1,045,000	136,500	0	0	0	0	0

CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2018	PROJECT COST	\$30,000
DESCRIPTION	<i>Technology Drive/PRV</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 Technology Drive PRV Station was identified in the 2016 Water System Asset Management Plan as a critical system asset at the end of its useful life. The original station was built in 1986 and is 31 years old. An equipment upgrade this station will ensure water users have consistent system pressures and will prevent costly and unexpected repairs for staff.</p>			
* Town's Share is 1/3 of this project cost.			
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING		
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	30,000
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	30,000
FINANCING	OPERATING BUDGET	\$	10,000
	UNH - CASH	\$	20,000
	BOND - TOWN PORTION	\$	-
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	30,000
IF BONDED:	NUMBER OF YEARS		N/A
	TOTAL PRINCIPAL	\$	-
	TOTAL INTEREST	\$	-
	TOTAL ESTIMATED COST	\$	-



CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2018	PROJECT COST	\$40,000
DESCRIPTION	<i>Madbury Rd. Booster Pump</i>	DEPARTMENT	<i>Public Works - Water</i>
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)			
Department Initiative			
DESCRIPTION (TO INCLUDE JUSTIFICATION)			
The Madbury Road Booster Pump Station was identified in the 2016 Water System Asset Management Plan as a critical system asset at the end of its useful life. The original station was built in 1993 and is 24 years old. An equipment upgrade for this station will ensure water users have consistent system pressures and will prevent costly and unexpected repairs for staff.			
ESTIMATED COSTS:			
	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING		
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	40,000
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	40,000
FINANCING			
	OPERATING BUDGET	\$	40,000
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	-
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	40,000
IF BONDED:			
	NUMBER OF YEARS		N/A
	TOTAL PRINCIPAL	\$	-
	TOTAL INTEREST	\$	-
	TOTAL ESTIMATED COST	\$	-



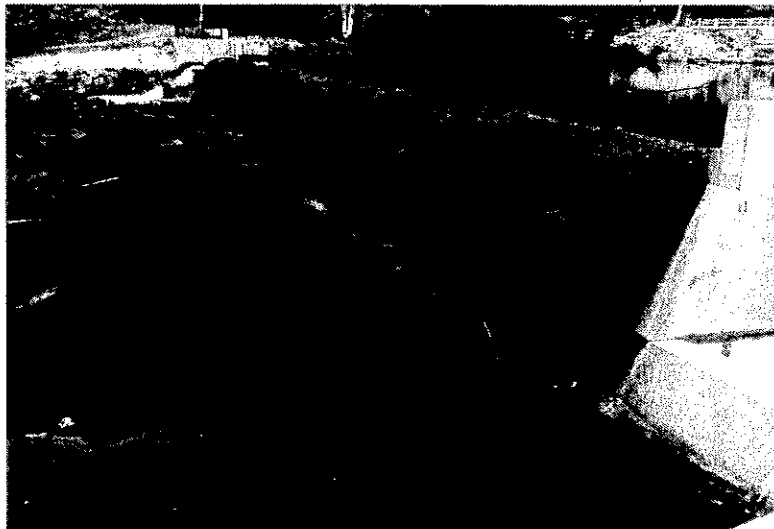
CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2018 - 2022	PROJECT COST	\$70,000
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.)			
Department Initiative			
DESCRIPTION (TO INCLUDE JUSTIFICATION)			
<u>2018</u> - Waterworks Road, Increasing Water Main from 10" to 12" - \$70,000			
<u>2019</u> - New Watermain for South Road to connect loop to main feed from WTP - \$70,000			
<u>2020</u> - Main St. from Leavitt to Mast Road, Increasing 10" to 12" - \$70,000			
<u>2021</u> - Connecting 12" Mains from Strafford Ave to Woodsides from Edgewood - \$70,000			
<u>2022</u> - Connecting 12" Mains on Main St in front of NH Hall - \$70,000			
*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	\$	70,000
FINANCING	OPERATING BUDGET	\$	70,000
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	-
	UNH 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 IMPROVEMENT PROGRAM

PROJECT YEAR	2019	PROJECT COST	\$490,000
DESCRIPTION	<i>Wiswall Dam Spillway</i>	DEPARTMENT	<i>Public Works - Water</i>
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)			
NHDES Mandated			
DESCRIPTION (TO INCLUDE JUSTIFICATION)			
<p>The Wiswall Dam was constructed in 1912 and although the abutments have been rehabilitated, including complete replacement of the left abutment in 2011, the spillway has not had any attention in all these years. Part of the 2011 Wiswall Dam Repair and Fishladder Project was to include repair of the dam's spillway and installation of rock anchors in the dam's spillway to improve the dam's stability and reduce the risk of failure. During the 2011 construction it was determined rock anchor installation could not be performed as designed due to the presence of large boulders cast into the spillway's concrete. A geotechnical investigation conducted in July 2012, which included the extraction of two core samples into the spillway confirmed the presence of the boulders and provided concrete strength values needed for the design of the stability solution. The 2014 CIP included \$70,000 for preliminary design and the 2015 CIP included \$90,000 for final design and permitting.</p>			
\$70,000 (bond) was approved in 2014 and \$90,000 (bond) approved in 2015 towards this project.			
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	-
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	490,000
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	490,000
FINANCING	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	490,000
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	490,000
IF BONDED:	NUMBER OF YEARS		10
	TOTAL PRINCIPAL	\$	490,000
	TOTAL INTEREST	\$	46,200
	TOTAL ESTIMATED COST	\$	536,200



CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2020	PROJECT COST	\$700,000
DESCRIPTION	<i>Madbury Road Water Line (Garrison - Edgewood)</i>	DEPARTMENT	<i>Public Works - Water</i>
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)			
Department Initiative			
DESCRIPTION (TO INCLUDE JUSTIFICATION)			
The Madbury Road water line from Garrison Road to Edgewood Road (approx. 2300 ft) is a combination of 6" and 8" old pit cast iron pipe. The Town has experienced 3 water main ruptures in the past 10 years along this stretch of pipe. This project entails replacing the old, undersized pipe with new 12" ductile iron pipe which has a life expectancy of 80-100 years.			
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	160,000
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	540,000
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	700,000
FINANCING	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	700,000
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	700,000
IF BONDED:	NUMBER OF YEARS		20
	TOTAL PRINCIPAL	\$	700,000
	TOTAL INTEREST	\$	184,500
	TOTAL ESTIMATED COST	\$	884,500



CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2021	PROJECT COST	\$975,000
DESCRIPTION	<i>Madbury Road Water Line (Edgewood - Rte 4)</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 Madbury Road water line from Edgewood Road to Route 4 (approx. 3300 ft) is a combination of 6" old pit cast iron pipe. The Town has experienced 4 water main ruptures in the past 10 years along this stretch of pipe. This project entails replacing the old, undersized pipe with new 12" ductile iron pipe which has a life expectancy of 80-100 years.</p>			
ESTIMATED COSTS:			
	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	225,000
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	750,000
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	975,000
FINANCING			
	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	975,000
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	975,000
IF BONDED:			
	NUMBER OF YEARS		20
	TOTAL PRINCIPAL	\$	975,000
	TOTAL INTEREST	\$	252,100
	TOTAL ESTIMATED COST	\$	1,227,100



CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2022	PROJECT COST	\$26,500
DESCRIPTION	<i>Backhoe Replacement</i>	DEPARTMENT	<i>Public Works- Operations, Water, WW</i>
DESCRIPTION (TO INCLUDE JUSTIFICATION):			
<p>Replace the 2006 JCB 4 Wheel Drive Backhoe. This piece of equipment is scheduled for replacement in 2022. The 2006 JCB was on a 12 year replacement schedule, however with the purchase of the rubber tired excavator in 2013, we were able to push this out further due to the excavator picking up a good percentage of the jobs. The machine is an essential piece of equipment for all Public Works Divisions and programs and is used year round. FUNDING: 50% Operations (\$53,000), 25% Water (\$26,500), 25% Wastewater (\$26,500 of which is 2/3 funded by UNH) will fund this purchase.</p>			
ESTIMATED COST	PURCHASE PRICE	\$ 26,500	Water Fund Portion Only
	ACCESSORIES*	\$ -	
	LESS TRADE-IN**	\$ -	
	NET PURCHASE PRICE	\$ 26,500	
	<small>*Accessories include lighting, radios, striping, misc. equipment.</small>		
FINANCING	OPERATING BUDGET	\$ 26,500	
	UNH - CASH	\$ -	
	BOND - TOWN PORTION	\$ -	
	UNH PORTION	\$ -	
	FEDERAL/STATE GRANT	\$ -	
	CAPITAL RESERVE ACCOUNT	\$ -	
	TOTAL FINANCING COSTS	\$ 26,500	
IF BONDED:	NUMBER OF YEARS	N/A	
	TOTAL PRINCIPAL	\$ -	
	TOTAL INTEREST (EST'D)	\$ -	
	TOTAL PROJECT COST	\$ -	



CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2022	VEHICLE COST	\$40,000
DESCRIPTION	1-Ton Utility Truck Replacement	DEPARTMENT	Public Works - Water
DESCRIPTION (TO INCLUDE JUSTIFICATION):			
<p>Replace the Water Division's 2012 Ford 1-ton utility truck. The current vehicle is a 2012 and on a 10 -12 year replacement schedule. Current unit is the only service vehicle in the Water Division and will have approximately 145,000 miles in 2022. This vehicle is equipped with numerous tools and equipment, such as a generator and a 2 ton crane. According to the New England Water Works Association equipment replacement survey 2022 is the optimum time to replace this piece of equipment. We anticipate a \$4,500 trade in.</p>			
Vehicle to be Replaced: 2012 Ford Utility Truck			
ESTIMATED COST	PURCHASE PRICE	\$	43,500
	ACCESSORIES*	\$	1,000
	LESS TRADE-IN**	\$	(4,500)
	NET PURCHASE PRICE	\$	40,000
	*Accessories include lighting, radios, striping, misc. equipment.		
FINANCING	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	40,000
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	40,000
IF BONDED:	NUMBER OF YEARS		7
	TOTAL PRINCIPAL	\$	40,000
	TOTAL INTEREST (EST'D)	\$	3,200
	TOTAL PROJECT COST	\$	43,200

