

**2019 APPROVED
2020 - 2028 PROPOSED
CAPITAL IMPROVEMENT PROGRAM**

Page #	Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
104	Water Fund										
105	Dover Road 8" Water Main	350,000									
106	Town/UNH Shared Water System Improvements	70,000	70,000	70,000	70,000						
107	Wiswall Dam Spillway		490,000								
108	Madbury Road Water Line Replacement			700,000	975,000						
109	Backhoe Replacement (Cost split w/Oper. & WW)				26,500						
110	One Ton Utility Truck Replacement				40,000						
	WATER FUND TOTALS	420,000	560,000	770,000	1,111,500	0	0	0	0	0	0

CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2019	PROJECT COST	\$350,000
DESCRIPTION	<i>Dover Road 8" Water Main</i>	DEPARTMENT	<i>Public Works - Water</i>
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)			
Department Initiative			
DESCRIPTION (TO INCLUDE JUSTIFICATION)			
New 8" water main to be included with Dover Road Force Main Upgrade Project. New water main extends from Old Piscataqua Road to the WWTP.			
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	-
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	350,000
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	350,000
FINANCING	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	350,000
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	350,000
IF BONDED:	NUMBER OF YEARS		7
	TOTAL PRINCIPAL	\$	350,000
	TOTAL INTEREST	\$	49,000
	TOTAL ESTIMATED COST	\$	399,000



CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR		2019 - 2022	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)					
<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	\$	-	
		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	2020	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
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	490,000
IF BONDED:	NUMBER OF YEARS	10	
	TOTAL PRINCIPAL	\$	490,000
	TOTAL INTEREST	\$	68,600
	TOTAL ESTIMATED COST	\$	558,600



CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2021	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)			
<p>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.</p>			
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
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	700,000
IF BONDED:	NUMBER OF YEARS	20	
	TOTAL PRINCIPAL	\$	700,000
	TOTAL INTEREST	\$	294,000
	TOTAL ESTIMATED COST	\$	994,000



CAPITAL IMPROVEMENT PROGRAM

PROJECT YEAR	2022	PROJECT COST	\$26,500
DESCRIPTION	Backhoe Replacement	DEPARTMENT	Public Works- Operations, Water, WW
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
	*Accessories include lighting, radios, striping, misc. equipment.		
FINANCING	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	26,500
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	TOTAL FINANCING COSTS	\$	26,500
IF BONDED:	NUMBER OF YEARS		7
	TOTAL PRINCIPAL	\$	26,500
	TOTAL INTEREST (EST'D)	\$	3,180
	TOTAL PROJECT COST	\$	29,680



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.</p> <p>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.</p> <p>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>			
<p>Vehicle to be Replaced: 2012 Ford Utility Truck</p>			
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
	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

