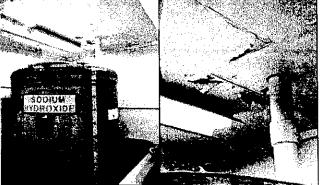
TOWN ADMINISTRATOR PROPOSED 2021-2030 Capital Improvement Program

Page #											
						-				İ	····
101	WATER FUND	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	Backhoe Replacement (Cost split with Sanitation & WW)	28,500									· ···
103	Lee Well Improvements	35,000									
104	Town Water System Improvements	25,000									
105	Town/UNH Shared Water System Improvements	35,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000
106	Madbury Road Water Line Replacement	500,000		2,205,000							
108	Utility Truck Replacement (One Ton)		65,000								,
109	Wiswall Dam Spillway				650,000						
	WATER FUND TOTALS	623,500	135,000	2,275,000	720,000	70,000	70,000	70,000	70,000	70,000	70,000

			FRUGRA	\IVI
PROJECT YEAR	2021	PRC	JECT CO	ST \$28,500
DESCRIPTION	Backhoe Replacement	DEP	ARTMEN	Public Works- Sanitation, Water, WW
DESCRIPTION (TO IN	NCLUDE JUSTIFICATION):			
•	,			
Replace the 2006 JCB 4 V	Wheel Drive Backhoe. This piece	e of equ	linment is sc	beduled for replacement in 2021
The 2006 JCB was on a 1	2 year replacement schedule, ho	wever	with the purc	hase of the rubber tired excavator in
2013, we were able to pus	sh this out further due to the exca	vator p	icking up a g	good percentage of the jobs. The
				programs and is used year round. er (\$31,000 of which is 2/3 funded by
UNH) will fund this purcha		-,,	• • • • • • • • • • • • • • • • • • • •	
ESTIMATED COST	PURCHASE PRICE	\$	31.000	Water Fund Portion Only
	ACCESSORIES*	\$	-	
	LESS TRADE-IN**	\$	(2,500)	
	NET PURCHASE PRICE	\$	28,500	
	*Accessories include lightin	g, radi	os, striping	, misc. equipment.
FINANCING	OPERATING BUDGET	\$	-	
	UNH - CASH	\$	-	
	BOND - TOWN PORTION	\$	28,500	
	FEDERAL/STATE GRANT	\$	-	
	CAPITAL RESERVE ACCOU	N <u>\$</u>	<u> </u>	
	TOTAL FINANCING COST	rs \$	28,500	
IF BONDED:	NUMBER OF YEARS		5	
	TOTAL PRINCIPAL	\$	28,500	
	TOTAL INTEREST (EST'D)	\$	1,300	
	TOTAL PROJECT COST	\$	29,800	
		U.		
		51		A 3 3 4 4
		30		
				297 👌

PROJECT YEAR	2021	PROJECT COST			\$35,000
DESCRIPTION	Lee Well Improvements	DEPARTMENT		Publ	ic Works - Water
MPETUS FOR PROJEC	T (IE. MANDATED, COUNCI	L GOAL, DEPT INITIA	IVE, ET	'C.)	
Department Initiative					
DESCRIPTION (TO INCL	UDE JUSTIFICATION)				
he tee Well pump house is a concr	ete masonry unit block building built in	1984 with a wood truss roof. The	nurnose o	the building is to house t	ho numn that during
vater from the Lee Well and equipn	nent that provides sodium hydroxide an	d sodium hypochlorite treatmen	t. The Towr	of Durham has identified	deficiencies with the
xisting Lee Well Pump House roof,	specifically the failing condition of the a ne chemical storage room. The comprom	sphalt shingles. The deficiencies	In the roof	have led to deterioration	of the interior ceiling
he equipment needed to provide w	vater to the distribution system. Prelimin	ary costs were also evaluated fo	r Improven	ents required to replace	the entire roof of the
oump house in the event that the ro fown forces. This cost includes roof	oof sheathing is failing. The budget price	is approximately \$35,000, which	may be ree	fuced if a portion of this v	vork is completed using
nitial funding for well inspection ar	ing, a new roof hatch, an electrical allow nd redevelopment. In summary, as a m	ance, engineering, and continge unicipal production well ages it i	ncy. As bud recome less	gets allow this capital req efficient effecting water	uest will also provide yield or specific capacity
gallons/minute/foot). This could re	sult from Incrustation from mineral dep	osits, physical plugging of the aq	lifer from s	ediment, well screen or ca	asing corrosion or pump
lamage. Typically, well inspection	and redevelopment is scheduled on a 6- oval, Inspection, and repair, well hole ar	8 year frequency or when well p	roduction r	otably decreases. The sco	pe of well rehabilitation
	ependable operation of the Lee well.	d casing CCTV inspection and we	eli redevelo	pment. This work was las	t completed in 2006 and
ESTIMATED COSTS:	PRELIMINARY STUDY, DES		\$	35,000	·
	FINAL DESIGN AND ENGIN	EERING	\$	-	
	CONSTRUCTION ENGINEE	RING OVERSIGHT	\$	-	
	CONSTRUCTION COSTS				
	CONTINGENCY		\$	•	
	TOTAL PROJECT COST		\$	35,000	_
INANCING	OPERATING BUDGET		\$	35,000	
	UNH - CASH		\$	-	
	BOND - TOWN PORTION		\$	•	
	FEDERAL/STATE GRANT		\$	-	
	CAPITAL RESERVE ACCO	JNT	\$	-	
	TOTAL FINANCING COS	TS	\$	35,000	
F BONDED:	NUMBER OF YEARS	· · ·		N/A	
	TOTAL PRINCIPAL		\$	-	
	TOTAL INTEREST		\$	-	
	TOTAL ESTIMATED CO	ST	\$		



PROJECT YEAR	2021 PROJE	ECT COST	\$25,000
DESCRIPTION	Town Water System Improvements DEPAR	RTMENT	Public Works - Water
IMPETUS FOR PROJEC	I (IE. MANDATED, COUNCIL GOAL	, DEPT INITIATIVE, ET	C.)
Department Initiative			
DESCRIPTION (TO INCL			
fistribution system. The goal of t	aster Plan - initiative to create a comprehensiv his plan would be to utilize 3rd party engineeri frastructure and will allow for the developmer	ng services which will include	an inventory, evaluation and condition
STIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND FINAL DESIGN AND ENGINEERING) ENGÍNEERING \$	25,000
	CONSTRUCTION ENGINEERING OV	•	-
	CONSTRUCTION COSTS		
	CONTINGENCY	\$	-
	TOTAL PROJECT COST	\$	25,000
INANCING	OPERATING BUDGET	\$	25,000
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	e	-
	CAPITAL RESERVE ACCOUNT	Ψ	
	TOTAL FINANCING COSTS	\$	25,000
F BONDED:	· · · · · · · · · · · · · · · · · · ·	\$	25,000 N/A
F BONDED:	TOTAL FINANCING COSTS	\$	
F BONDED:	TOTAL FINANCING COSTS NUMBER OF YEARS		



PROJECT YEAR	2021	PROJECT COST			\$35,000
DESCRIPTION	Town/UNH Shared Water Systern Improvements	DEPARTMENT		-	Public Works - Water
MPETUS FOR PROJEC	T (IE. MANDATED, COUNCI	L GOAL, DEPT INITIATIV	E, EĨ	C.)	
Department Initiative					
DESCRIPTION (TO INCL	UDE JUSTIFICATION)		-		
<u>2021</u> - TBD - \$35,000					
2022 - TBD - \$70,000					
<u>2023</u> - TBD - \$70,000					
	stimated costs are Town's Share	of 1/3 of the total cost estimate	d at \$2	210,000 per ye	ear
ESTIMATED COSTS:	PRELIMINARY STUDY, DES	GIGN AND ENGINEERING	\$	-	
	FINAL DESIGN AND ENGIN	EERING	\$	-	•
	CONSTRUCTION ENGINEE	RING OVERSIGHT	\$	-	
	CONSTRUCTION COSTS		\$	35,000	
	CONTINGENCY		\$	-	
	TOTAL PROJECT COST		\$		
FINANCING	OPERATING BUDGET		\$	35,000	
	UNH - CASH		\$	-	
	BOND - TOWN PORTION		\$	-	
	FEDERAL/STATE GRANT		\$	-	
	CAPITAL RESERVE ACCO	JNT	\$	-	
	TOTAL FINANCING COS	TS	\$	35,000	
F BONDED:	NUMBER OF YEARS	·		N/A	·
	TOTAL PRINCIPAL	1	\$	•	
	TOTAL INTEREST		ŝ	-	
	TOTAL ESTIMATED COS	ST	<u>•</u>		



PROJECT YEAR	2021	PROJECT COST		\$500,000
	Madbury Road Water Line			· = · · · · · · · · · ·
DESCRIPTION		DEPARTMENT		Public Works - Water
IMPETUS FOR PROJEC	T (IE. MANDATED, COUNCIL	. GOAL, DEPT INITIATIV	Έ, ΕΤ	C.)
Department Initiative				
DESCRIPTION (TO INCI DPW to undertake Request for completed in two construction pl	LUDE JUSTIFICATION) Qualifications process to hire a consulta nases beginning in 2023. Construction	ant to begin preliminary design c estimates will be further develop	of a new bed in de	12" ductile iron water main. This project will be sign.
water main ruptures in the pa	Edgewood Road (approx. 2300 ft) is st 10 years along this stretch of pipe ncy of 80-100 years. (2380 LF @ \$3	 This project entails replacir 	ng the ol	st iron pipe. The Town has experienced 3 d, undersized pipe with new 12" ductile iron
ruptures in the past 10 years	o Route 4 (approx. 3300 ft) is a corr along this stretch of pipe. This proje 00 years. (3310 LF @ \$323/LF Con:	ct entails replacing the old, ur	pipe. T idersize	he Town has experienced 4 water main d pipe with new 12" ductile iron pipe which
ESTIMATED COSTS:	PRELIMINARY STUDY, DESI	GN AND ENGINEERING	\$	250,000
	FINAL DESIGN AND ENGINE	ERING	\$	250,000
	CONSTRUCTION ENGINEER	ING OVERSIGHT	\$	
	CONSTRUCTION COSTS		\$	•
	CONTINGENCY	20%	\$	<u> </u>
· · · · · · · · · · · · · · · · · · ·	TOTAL PROJECT COST		\$	500,000
FINANCING	OPERATING BUDGET		\$	-
	UNH - CASH		\$	-
	BOND - TOWN PORTION		\$	500,000
	FEDERAL/STATE GRANT		\$	
	CAPITAL RESERVE ACCOU	NT	\$	-
	TOTAL FINANCING COST	S	\$	500,000
IF BONDED:	NUMBER OF YEARS			10
	TOTAL PRINCIPAL		\$	500,000
	TOTAL INTEREST		\$	55,000
	TOTAL ESTIMATED COS	г	\$	555,000



PROJECT YEAR	2023	PROJECT COST	_	\$2,205,000
	Madbury Road Water Line		-	
DESCRIPTION	(Garrison - Route 4)	DEPARTMENT		Public Works - Water
IMPETUS FOR PROJEC	T (IE. MANDATED, COUNCI	L GOAL, DEPT INITIAT	ΓIVE, E	ГС.)
Department Initiative				
DESCRIPTION (TO INCL	UDE JUSTIFICATION)			<u></u>
		rrison Road to Edgewood Ro	oad and l	Phase II will be Edgewood Road to Route 4.
PHASE I - Garrison Road to E	dgewood Road (approx. 2300 ft) i	s a combination of 6" and 8"	' old pit c	ast iron pipe. The Town has experienced 3
Nater main ruptures in the pas	t 10 years along this stretch of pip cy of 80-100 years. (2380 LF @ \$	De. This project entails replaced a contract of the construction Control of the construction Control of the	icing the	old, undersized pipe with new 12" ductile Iron
PHASE II - Edgewood Road to	Route 4 (approx. 3300 ft) is a co	mbination of 6" old pit cast ir	ron pipe.	The Town has experienced 4 water main
uptures in the past 10 years a pas a life expectancy of80-10	llong this stretch of pipe. This proj 10 years. (3310 LF @ \$323/LF Co	ect entails replacing the old, estruction Cost Only)	, undersiz	ed pipe with new 12" ductile iron pipe which
		nation cost only)		
ESTIMATED COSTS:	PRELIMINARY STUDY, DES	GIGN AND ENGINEERING	\$	
	FINAL DESIGN AND ENGIN	EERING		
	CONSTRUCTION ENGINEE			
	CONSTRUCTION ENGINEE	RINGOVERSIGHT	\$	■ •
	CONSTRUCTION COSTS	RING OVERSIGHT	» \$	1,850,000
		20%	\$ \$ \$	- 1,850,000 355,000
·	CONSTRUCTION COSTS	20%	\$ \$ \$	
FINANCING	CONSTRUCTION COSTS CONTINGENCY	20%	\$ \$ \$	355,000
FINANCING	CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST	20%	\$ \$ \$ \$	355,000
FINANCING	CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET	20%	\$ \$ \$ \$ \$	355,000
FINANCING	CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH	20%	\$ \$ \$ \$ \$ \$ \$ \$ \$	355,000 2,205,000 -
FINANCING	CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH BOND - TOWN PORTION	20%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	355,000 2,205,000 -
FINANCING	CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH BOND - TOWN PORTION FEDERAL/STATE GRANT	20% JNT	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	355,000 2,205,000 -
	CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH BOND - TOWN PORTION FEDERAL/STATE GRANT CAPITAL RESERVE ACCOU	20% JNT	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>355,000</u> 2,205,000 - - 2,205,000 - -
	CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH BOND - TOWN PORTION FEDERAL/STATE GRANT CAPITAL RESERVE ACCOU TOTAL FINANCING COS	20% JNT	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	355,000 2,205,000 - 2,205,000 - 2,205,000 2,205,000
FINANCING IF BONDED:	CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH BOND - TOWN PORTION FEDERAL/STATE GRANT CAPITAL RESERVE ACCOU TOTAL FINANCING COS NUMBER OF YEARS	20% JNT	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>355,000</u> 2,205,000 - 2,205,000 - 2,205,000 20



PROJECT YEAR	2022	VEH		\$65,000
DESCRIPTION	1-Ton Utility Truck Replacement	DEP	ARTMENT	Public Works - Water
DESCRIPTION (TO IN	CLUDE JUSTIFICATION):	•		
The current vehicle is a 20 Division and will have appr as a generator and a 2 ton to be updated. According time to replace this piece of	n's 2012 Ford 1-ton utility truck. 12 and on a 10 -12 year replacement roximately 80,000 miles in 2022. This crane. The 2 ton crane has been mo to the New England Water Works Ass of equipment. We anticipate a \$5,000 , utility body \$15,000 and a plow pack	vehicle ved froi ociatioi rade in	is equipped with nu n previous trucks fo n equipment replace . The truck cab and	merous tools and equipment, such or the past 25 years and is also due ement survey 2022 is the optimum I chassis cost is expected to be
Vehicle to be Replaced:	2012 Ford Utility Truck with utility be	ody and	crane.	
ESTIMATED COST	PURCHASE PRICE	\$	58,000	
	ACCESSORIES*	\$	7,000	
	LESS TRADE-IN**	\$	-	
	NET PURCHASE PRICE	\$	65,000	
· · · · · · · · · · · · · · · · · · · 	*Accessories include lighting, rad	lios, st	riping, misc. equip	oment.
FINANCING	OPERATING BUDGET	\$		
	UNH - CASH	\$	-	
	BOND - TOWN PORTION	\$	65,000	
	FEDERAL/STATE GRANT	\$	-	
	CAPITAL RESERVE ACCOUNT	\$	<u> </u>	
	TOTAL FINANCING COSTS	\$	65,000	
IF BONDED:	NUMBER OF YEARS		5	
	TOTAL PRINCIPAL	\$	65,000	
	TOTAL INTEREST (EST'D)	\$	2,900	
	TOTAL PROJECT COST	\$	67,900	

PROJECT YEAR	2023	PROJECT COST			\$650,000
DESCRIPTION	Wiswall Dam Spillway	DEPARTMENT		· · ·	Public Works - Water
IMPETUS FOR PROJEC	T (IE. MANDATED, COUNCIL	GOAL, DEPT INITIATI	VE, ET	°C.)	
NHDES Mandated					
DESCRIPTION (TO INCI	UDE JUSTIFICATION)				
abutment in 2011, the spillwa include repair of the dam's sp failure. During the 2011 cons large boulders cast into the sp samptes into the spillway con	ucted in 1912 and although the abut y has not had any attention in all the illway and installation of rock ancho truction it was determined rock anch pillway's concrete. A geotechnical in firmed the presence of the boulders ed \$70,000 for preliminary design a	se years. Part of the 2011 rs in the dam's spillway to in nor installation could not be nvestigation conducted in Ju and provided concrete stre	Wiswall nprove perform ily 2012 ngth val	l Dam Repair a the dam's stat ned as designe , which includ lues needed fo	and Fishladder Project was to bility and reduce the risk of ed due to the presence of ed the extraction of two core or the design of the stability
	(bond) was approved in 2014 and		in 201	5 towards thi	s project.**
\$70,000 ESTIMATED COSTS:	(bond) was approved in 2014 and PRELIMINARY STUDY, DESIG		in 201 \$	5 towards thi	s project.
		GN AND ENGINEERING		5 towards thi	s project. **
	PRELIMINARY STUDY, DESIG	GN AND ENGINEERING ERING		5 towards thi - -	s project.**
	PRELIMINARY STUDY, DESIC FINAL DESIGN AND ENGINE	GN AND ENGINEERING ERING	\$ \$	5 towards thi - - 650,000	s project.**
	PRELIMINARY STUDY, DESIG FINAL DESIGN AND ENGINE CONSTRUCTION ENGINEER	GN AND ENGINEERING ERING	\$ \$ \$	-	s project.**
	PRELIMINARY STUDY, DESIC FINAL DESIGN AND ENGINE CONSTRUCTION ENGINEER CONSTRUCTION COSTS	GN AND ENGINEERING ERING	\$ \$ \$	-	s project.**
	PRELIMINARY STUDY, DESIC FINAL DESIGN AND ENGINE CONSTRUCTION ENGINEER CONSTRUCTION COSTS CONTINGENCY	GN AND ENGINEERING ERING	\$ \$ \$ \$	- - 650,000	s project.**
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIG FINAL DESIGN AND ENGINE CONSTRUCTION ENGINEER CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST	GN AND ENGINEERING ERING	\$ \$ \$ \$ \$	- - 650,000	s project.**
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIG FINAL DESIGN AND ENGINE CONSTRUCTION ENGINEER CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET	GN AND ENGINEERING ERING	\$ \$ \$ \$ \$	- - 650,000	s project.**
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIG FINAL DESIGN AND ENGINE CONSTRUCTION ENGINEER CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH	GN AND ENGINEERING ERING	\$ \$ \$ \$ \$	- - - - - 650,000 - -	s project.**
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIG FINAL DESIGN AND ENGINE CONSTRUCTION ENGINEER CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH BOND - TOWN PORTION	GN AND ENGINEERING ERING ING OVERSIGHT	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - 650,000 - -	s project.**
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIG FINAL DESIGN AND ENGINER CONSTRUCTION ENGINEER CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH BOND - TOWN PORTION FEDERAL/STATE GRANT	GN AND ENGINEERING ERING ING OVERSIGHT	\$ \$ \$ \$ \$	- - - - - 650,000 - -	s project.**
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIG FINAL DESIGN AND ENGINER CONSTRUCTION ENGINEER CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH BOND - TOWN PORTION FEDERAL/STATE GRANT CAPITAL RESERVE ACCOUN	GN AND ENGINEERING ERING ING OVERSIGHT	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - 650,000 - - - 650,000 - -	s project.**
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIC FINAL DESIGN AND ENGINE CONSTRUCTION ENGINEER CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH BOND - TOWN PORTION FEDERAL/STATE GRANT CAPITAL RESERVE ACCOUN TOTAL FINANCING COST	GN AND ENGINEERING ERING ING OVERSIGHT	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	s project.**
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIG FINAL DESIGN AND ENGINE CONSTRUCTION ENGINEER CONSTRUCTION COSTS CONTINGENCY TOTAL PROJECT COST OPERATING BUDGET UNH - CASH BOND - TOWN PORTION FEDERAL/STATE GRANT CAPITAL RESERVE ACCOUN TOTAL FINANCING COSTS	GN AND ENGINEERING ERING ING OVERSIGHT	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 650,000 - - 650,000 - - - 650,000	s project.**

