# TOWN ADMINISTRATOR PROPOSED 2020-2029 CAPITAL IMPROVEMENT PROGRAM

68	Public Works - Operations Division	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
69	Road Resurfacing	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000
74	Pedestrian Bridge over Oyster River	141,000							·		100,000
74A	Road Resurfacing - UNH	125,100									
74B	Wagon Hill Erosion Management - Phase II	213,765									
75	Oyster River Dam (Mill Pond)		5,000,000								
76	Sidewalk Improvements		29,000	72,500	17,000	5,000					
81	Mobile Air Compressor			17,500							
82	Backhoe Replacement (cost split w/Water & WW)			53,000	·		-				
83	Roadway Sweeper	,		143,000	,						
84	Dame Road Paving				455,000	-					
85	1/2 Ton Pickup Replacement				27,000						
86	Aerial Bucket Truck				42,000						
87	Dump Truck Replacement				178,600	185,900	193,200	200,500	200,500		
88	Sidewalk Plow Tractor Replacement								106,500		
	PW - OPERATIONS TOTALS	929,865	5,479,000	736,000	1,169,600	640,900	643,200	650,500	757,000	450,000	450,000

# 2020-2029 PROPOSED ROAD PROGRAM\* COST ESTIMATED AT \$450,000 PER YEAR

2020	2023	2027
CARRIAGE WAY	CHESLEY DRIVE	BUCKS HILL ROAD
MAPLE STREET	ELLISON LANE	CORMORANT CIRCLE
MEADOW ROAD	MADBURY ROAD	CROGHAN LANE
RIVERVIEW ROAD	MEADER LANE	DAISEY DRIVE
RIVERVIEW COURT	NOBEL K. PETERSON	JENKINS COURT
SANDY BROOK DRIVE	OLD PISCATAQUA ROAD	PARTRIDGEBERRY LANE
STROUT LANE	PARK COURT	RAZORBILL CIRCLE
SURREY LANE	ROSS ROAD	SHEARWATER STREET
	SULLIVAN FALLS ROAD	SUMAC LANE
2021		WOODMAN ROAD
BARLETT ROAD	2024	
FOGG DRIVE	BRITTON LANE	2028
FOGG LANE	DURHAM PT RD. (WEST)	BAGDAD ROAD (1ST HALF)
KELSEY DRIVE	EMERSON RAOD	MAGRATH ROAD
LAUREL LANE	SPRUCE WOOD LANE	OYSTER RIVER ROAD
MADBURY ROAD	WORTHEN ROAD	SUNNYSIDE DRIVE
MESERVE ROAD		VALENTINE HILL ROAD
MOHARINET WAY	2025	WILLEY ROAD
TALL PINES ROAD	AMBLER WAY	WISWALL ROAD PHASE I
WOODRIDGE ROAD	DEER MEADOW ROAD	
	FOX HILL ROAD	2029
2022	GERRISH DRIVE	BEECH HILL ROAD
ADAMS CIRCLE	LANGLEY ROAD	GARRISON AVENUE
BURNHAM AVE	MORGAN WAY	GRIFFITH DRIVE
COLD SPRING ROAD	TIRRELL PLACE	PETTEE BROOK LANE
CONSTABLE ROAD	WILLIAMS WAY	PINECREST LANE
CORSON LANE		YOUNG DRIVE
DAVIS AVENUE	2026	WISWALL ROAD PHASE II
FAIRCHILD DRIVE	BACK RIVER ROAD	
FALLS WAY	COE DRIVE	
FOSS FARM ROAD	STRAFFORD AVENUE	
HEMLOCK WAY	WEDNESDAY HILL ROAD	
MATHES COVE ROAD		
ORCHARD DRIVE		
RYAN WAY		
ROCKY LANE		
STEVENS WAY		

<sup>\*\*</sup>Years 2021 through 2029 are subject to change.

·	CAPI	TAL IMPRO	OVEMENT PROG	RAM	W	
PROJECT YEAR	20	20	PROJECT COS	T .		\$450,000
DESCRIPTION	Road P	rogram	DEPARTMENT			Public Works
MPETUS FOR PROJEC	CT (IE. MANDAT	ED, COUNC	IL GOAL, DEPT	INITIATIVE, E	ГС.)	
Dept. Initiative						
DESCRIPTION (TO INC	LUDE JUSTIFIC	ATION)				
	•.					
			,			
Roads with respective impro	vements and costs	are listed belo	w, Program is desigi	ned to resurface e	ach road ev	ery 15 years.
	· .					
ESTIMATED COSTS:	CONSTRUCT	ION ENGINE	ERING OVERSIGHT	\$	- '	
	CONSTRUCT	ION COSTS	•	\$	450,000	
	CONTINGEN	CY		\$	-	
	TOTAL PR	OJECT COST	-	\$	450,000	
FINANCING	OPERATING I	BUDGET		\$	450,000	
	UNH - CASH			\$	<b>=</b>	
	BOND - TOW	N PORTION		\$	_	
	BOND - UNH			\$	_	
	FEDERAL/ST			<b>\$</b>	_	
	CAPITAL RES		IINT	\$	_	
		IANCING COS		<del> </del>	<u>-</u> 450,000	
IF BONDED:	******		313	· .		
IF BUNDED:	NUMBER OF				N/A	• •
	TOTAL PRINC	CIPAL		\$		
	TOTAL INTER	REST	•	_\$	-	
	TOTAL ES	TIMATED CO	ST	\$	-	
ROAD NAME	TREATMENT	MILEAGE	DISTANCE	LAST	cos	т
	TYPE		(FEET)	TREATMENT		
CARRIAGE WAY	1" OL	0.23	1214	2003	\$	32,907
MAPLE STREET	1" OL	0.06	316	2005	s	8,330
MEADOW ROAD	1" OL	0.16	855	2003	\$	22,767
RIVERVIEW ROAD	1" OL	0.56	2956	2004	\$	82,534
RIVERVIEW COURT	1" OL	0.07	369	2004	S	11,175
SANDY BROOK DRIVE	1" OL	1.38	7265	2005	\$	189,863
STROUT LANE	1" OL	0.13	665	1996	\$	12,409
SURREY LANE	1* OL	0.7	3696	2003	\$	82,277
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·÷····································		<del></del>		\$	·

# **ROAD PROGRAM SUMMARY**

# **YEAR 2021**

ROAD NAME	TREATMENT	MILEAGE	DISTANCE	LAST		COST
	TYPE		(FEET)	TREATMENT		
BARLETT ROAD	1* OL	0.26	1381	2004	\$	32,669
FOGG DRIVE	1* OL	0.39	2040	2004	\$	48,258
FOGG LANE	1" OL	0.04	211	2004	\$	4,989
KELSEY DRIVE	1" OL	0.30	1585	2006	s	20,732
LAUREL LANE	1' OL	0.53	2820	2006	\$	66,057
MESERVE ROAD	1" OL	0.33	1761	2004	\$	40,584
MOHARINET WAY	1" OL	0.10	525	2004	\$	12,417
TALL PINES ROAD	1" OL	0.42	2218	2006	\$	43,090
WOODRIDGE ROAD	1" OL	0.89	4700	2004	\$	111,31
·		3.26	SUBTOTAL		\$	380.11

# **YEAR 2022**

ROAD NAME	TREATMENT	MILEAGE	DISTANCE	LAST	C	OST
	TYPE		(FEET)	TREATMENT		
ADAMS CIRCLE	1" OL	0.16	844	2006	s	13.798
BURNHAM AVE	1" OL	0.19	1020	2007	\$	36,427
COLD SPRING ROAD	1" OL	0.28	1500	2005	\$	35,993
CONSTABLE ROAD	1" OL	0.15	797	2005	\$	19,123
CORSON LANE	1" OL	0.08	400	2005	\$	8,796
DAVIS AVENUE	1" OL	0.27	1415	2011	\$	39,916
FAIRCHILD DRIVE	1" OL	0.22	1161	2006	\$	18,982
FALLS WAY	1" OL	0.21	1094	2005	\$	26,251
FOSS FARM ROAD	1" OL	0.30	1572	2005	\$	37,922
HEMLOCK WAY	1" OL	0.19	1006	2005	\$	24,139
MATHES COVE ROAD	1" OL	0.40	2190	2006	\$	56,056
ORCHARD DRIVE	1" OL	0.51	2698	2005	\$	62,526
RYAN WAY	1" OL	0.17	890	2005	\$	21,356
ROCKY LANE	1" OL	0.11	581	2006	s	7,599
STEVENS WAY	1" OL	0.30	1568	2005	\$	37,626
		3.54	SUBTOTAL			446.510

# **YEAR 2023**

ROAD NAME	TREATMENT	MILEAGE	DISTANCE	LAST		COST
	TYPE		(FEET)	TREATMENT		
CHESLEY DRIVE	1" OL	0.09	485	2006	\$	6,342
ELLISON LANE	1" OL	0.10	539	2001	\$	9,936
MADBURY ROAD	1" OL	1.74	9290	2005 - 2009	\$	315,004
MEADER LANE	1" OL	0.14	750	2006	\$	9,810
NOBEL K. PETERSON DRIVE	1" OL	0.19	1000	1999	\$	28,327
OLD PISCATAQUA ROAD	1" OL	0.27	1410	1995	\$	30,515
PARK COURT	1" OL	0.10	526	2006	\$	6,878
ROSS ROAD	1" OL	1.12	5914	2006	\$	74,135
SULLIVAN FALLS ROAD	1* OL	0.28	1475	2003	\$	34,139
		4.03	SUBTOTAL		s	515,086

# **ROAD PROGRAM SUMMARY**

# **YEAR 2024**

ROAD NAME	TREATMENT	MILEAGE	DISTANCE	LAST		COST
	TYPE		(FEET)	TREATMENT		
BRITTON LANE	1" OL	0.13	650	2009	\$	8,797
DURHAM PT RD. (WEST)	1" OL	1.98	10400	2007	\$	224,328
EMERSON ROAD	1" OL	0.58	3062	2011	\$	71,329
SPRUCE WOOD LANE	1" OL	0.12	545	2005	\$	8,608
WORTHEN ROAD	1" OL	0.39	2048	2004	\$	47,599
		3.20	SUBTOTAL		5	360.661

# **YEAR 2025**

ROAD NAME	TREATMENT	MILEAGE	DISTANCE	YEAR	 COST
	TYPE		(FEET)	TREATMENT	
AMBLER WAY	1" OL	0.45	2390	2008	\$ 58,485.00
DEER MEADOW ROAD	1" OL	1.00	5270	2008	\$ 112,206.00
FOX HILL ROAD	1" OL	0.36	1906	2008	\$ 75,808.00
GERRISH DRIVE	1" OL	0.20	1054	2008	\$ 37,832.00
LANGLEY ROAD	1" OL	0.61	3226	2008	\$ 98,641.00
MORGAN WAY	1" OL	0.25	1320	2008	\$ 22,354.00
TIRRELL PLACE	1" OL	0.14	739	2008	\$ 12,911.00
WILLIAMS WAY	1* OL.	0.25	1336	2008	\$ 22,925.00
	!			:	
		3.26	SUBTOTAL		\$ 441,162.00

# **YEAR 2026**

ROAD NAME	TREATMENT	MILEAGE	DISTANCE	LAST	COST
	TYPE		(FEET)	TREATMENT	
BACK RIVER ROAD	1" OL	0.65	3440	2011	121,806
COE DRIVE	1" OL	0.7	3695	2015	137,373
STRAFFORD AVENUE	1" OL	0.34	1800	2011	50,777
WEDNESDAY HILL ROAD	1" OL	0.45	2382	.2010	117,493
		2.14	SUBTOTAL		427,449

# **ROAD PROGRAM SUMMARY**

# **YEAR 2027**

ROAD NAME	TREATMENT	MILEAGE	DISTANCE	LAST	COST
	TYPE	1	(FEET)	TREATMENT	
BUCKS HILL ROAD	1" OL	0.58	3062	2011	97,445
CORMORANT CIRCLE	1" OL	0.12	613	2011	16,505
CROGHAN LANE	1" OL	0.15	797	2011	21,134
DAISEY DRIVE	1" OL	0.08	436	2011	12,805
JENKINS COURT	1" OL	0.07	360	2011	10,573
PARTRIDGEBERRY LANE	1" OL	0.17	876	2011	25,733
RAZORBILL CIRCLE	1" OL	0.08	415	2011	12,190
SHEARWATER STREET	1" OL	0.41	2150	2011	63,158
SUMAC LANE	1" OL	0.51	2709	2011	86,211
WOODMAN ROAD	1" OL	0.22	1178	2011	35,995
		2.39	SUBTOTAL	<u> </u>	381.749

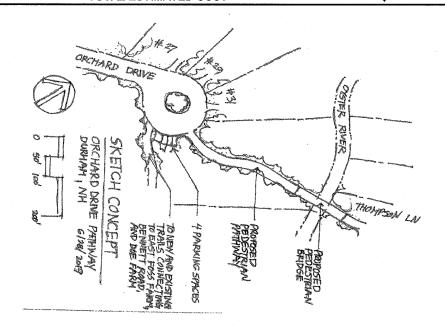
# **YEAR 2028**

ROAD NAME	TREATMENT	MILEAGE	DISTANCE	LAST ,	COST
· · · · · · · · · · · · · · · · · · ·	TYPE	· .	(FEET)	TREATMENT	
BAGDAD ROAD (1ST HALF)	1" OL ·	0.63	3322	2012	79,351
MAGRATH ROAD	1" OL	0.16	844	. 2012	25,704
OYSTER RIVER ROAD	1" OL	0.42	2217	2012	43,207
SUNNYSIDE DRIVE	1" OL	0.41	2165	2012	64,008
VALENTINE HILL ROAD	1" OL	0.14	729	2012	17,367
WILLEY ROAD	1" OL	0.30	1595	2012	65,076
WISWALL ROAD PHASE I	1" OL	0.70	3678	2012	146,364
		2.76	SUBTOTAL		441,077

# **YEAR 2029**

ROAD NAME	TREATMENT	MILEAGE	DISTANCE	LAST	COST
	TYPE		(FEET)	TREATMENT	
BEECH HILL ROAD	1" OL	0.13	692	2013	24,040
GARRISON AVENUE	2" OL	0.28	1478	2013	77,741
GRIFFITH DRIVE	1" OL	0.33	1745	2013	48,493
PETTEE BROOK LANE	1" OL	0.20	1100	2015	35,145
PINECREST LANE	1" OL	0.79	4197	2013	119,683
YOUNG DRIVE	1" OL	0.24	1243	2013	35,446
WISWALL ROAD PHASE II	1" OL	0.35	1840	2013	73,338
		2,32	SUBTOTAL		413.886

PROJECT YEAR	2020 PROJE	CT COST		\$141,000
DESCRIPTION	Pedestrian Bridge DEPAR	RTMENT		Public Works
IMPETUS FOR PROJEC	T (IE. MANDATED, COUNCIL GOAL, DEP	Γ INITIATIVE, E	TC.)	·
Department Initiative				
DESCRIPTION (TO INCL	UDE JUSTIFICATION)			
			*	
Pedestrian bridge to cross over	er the Oyster River from Thompson Lane to the new	Orchard Drive par	hway.	
•				
			. •	
This project will be funded with	n private donations, as well as the purchase of an ea	asement by UNH.		
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· · · · · · · · · · · · · · · · · · ·				
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINE	EERING \$	7,500	
	FINAL DESIGN AND ENGINEERING	\$	-	
	CONSTRUCTION ENGINEERING OVERSIGH	т \$	1,500	
	CONSTRUCTION COSTS	\$	95,000	
	CONTINGENCY	\$	37,000	
	TOTAL PROJECT COST	\$	141,000	
FINANCING	OPERATING BUDGET	\$	-	
	UNH - CASH	\$	-	
	BOND - TOWN PORTION	\$	-	
	FEDERAL/STATE GRANT	\$	_	
	FEDERAL/STATE GRANT OTHER FUNDING	\$ \$	- 141,000	
		\$ \$ \$	- 141,000 141,000	
IF BONDED:	OTHER FUNDING			
IF BONDED:	OTHER FUNDING TOTAL FINANCING COSTS		141,000	
IF BONDED:	OTHER FUNDING TOTAL FINANCING COSTS NUMBER OF YEARS	\$	141,000	

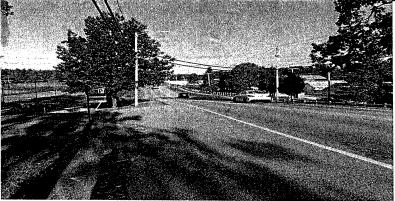


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PROJECT YEAR	2020	PROJECT COST	\$125,100
DESCRIPTION	Road Resurfacing - UNH	DEPARTMENT	Public Works- Operations
IMPETUS FOR PROJE	CT (IE. MANDATED, COUN	CIL GOAL, DEPT INITIAT	TIVE, ETC.)
Department initiative/Council goa	I/road maintenance agreement with LINI-	·	

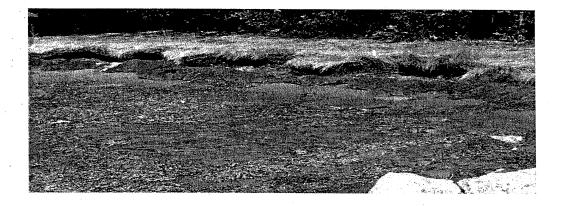
## **DESCRIPTION (TO INCLUDE JUSTIFICATION)**

The University of NH has asked the Town to include their road paving for 2020 with the Town's 2020 Road Resurfacing bid package. This is a win-win situation as it makes our bid package more competitive and allows UNH to receive the negotiated rate.

ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	<u>-</u>			
	FINAL DESIGN AND ENGINEERING	\$	<del>.</del>			
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	· · · · · · · · · · · · · · · · · · ·			,
	CONSTRUCTION COSTS	\$	125,100			
	CONTINGENCY	\$	-	•		
	TOTAL PROJECT COST	\$	125,100			
FINANCING	OPERATING BUDGET	\$	-			
	UNH - CASH	\$	125,100			
•	BOND - TOWN PORTION	\$ .				
	BOND - UNH PORTION	\$ .	-			
	FEDERAL/STATE GRANT	\$			,	
	CAPITAL RESERVE ACCOUNT	\$	÷			
	TOTAL FINANCING COSTS	\$	125,100			
IF BONDED:	NUMBER OF YEARS		N/A			
	TOTAL PRINCIPAL	. \$	-			
	TOTAL INTEREST	\$	-			
	TÓTAL ESTIMATED COST	\$	<u> </u>			



PROJECT YEAR	2020	PROJECT COST			\$213,765
DESCRIPTION	Wagon Hill Erosion Management - Phase II	DEPARTMENT			Public Works- Operations
IMPETUS FOR PROJEC	T (IE. MANDATED, COUNC	CIL GOAL, DEPT INITIAT	ΓΙVE, E	ГС.)	
Department initiative					
DESCRIPTION (TO INCL	.UDE JUSTIFICATION)			7	
	· · · · · · · · · · · · · · · · · · ·				•
					•
The shoreline at Wagon H	Hill Farm is eroding at a rate	of 1 foot per year due to	the elin	nination of	the salt marsh. This
project will restore and pro	otect the new marsh grasse	s. Engineering and gratn	ıt monie	s have be	en utliized to date.
					. *
ESTIMATED COSTS:	PRELIMINARY STUDY, DE	SIGN AND ENGINEERING	\$	_	
٠,	FINAL DESIGN AND ENGI	9	\$	_	
	CONSTRUCTION ENGINE	ERING OVERSIGHT	\$	· <u>-</u>	
	CONSTRUCTION COSTS		\$	213,765	
	CONTINGENCY		\$	, -	4 · 4
	TOTAL PROJECT COS	Γ	\$	213,765	
FINANCING	OPERATING BUDGET		\$	-	
	UNH - CASH		. \$	· _	
	BOND - TOWN PORTION		\$	_	
	FEDERAL/STATE GRANT		\$	_	
	EVERSOURCE	•	\$	213,765	
	TOTAL FINANCING CO	STS	\$	213,765	
IF BONDED:	NUMBER OF YEARS			N/A	
	TOTAL PRINCIPAL		\$	· <u>-</u>	
•	TOTAL INTEREST	•	\$	· <u>-</u>	
	TOTAL ESTIMATED CO	NOT.	\$		•



PROJECT YEAR	2021	PROJECT COST	\$3,000,000-\$5,000,000
DESCRIPTION	Oyster River Dam (Mill Pond)	DEPARTMENT	Public Works - Operations
IMPETUS FOR PROJE	ECT (IE. MANDATED, COUNCI	L GOAL, DEPT INITIATIVE, ET	ГС.)
Department Initiative			

## DESCRIPTION (TO INCLUDE JUSTIFICATION)

Following receipt and review of the Feasibility Study to be performed in 2019 the Town of Durham will need to decide how it wishes to proceed with the Oyster River Dam. Possibilities include repairing the dam or removing the dam in its entirety.

THIS IS INCLUDED AS A "PLACEHOLDER" AND WILL BE UPDATED ONCE THE FEASIBILITY STUDY HAS BEEN RECEIVED AND REVIEWED.

ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$ =	
	FINAL DESIGN AND ENGINEERING	\$ -	
	CONSTRUCTION ENGINEERING OVERSIGHT	\$ -	
	CONSTRUCTION COSTS	\$ 5,000,000	
	CONTINGENCY	\$ -	
	TOTAL PROJECT COST	\$ 5,000,000	
FINANCING	OPERATING BUDGET	\$ 	
	UNH - CASH	\$ -	
	BOND - TOWN PORTION	\$ 5,000,000	
	FEDERAL/STATE GRANT	\$ -	
	CAPITAL RESERVE ACCOUNT	\$ • -	
	TOTAL FINANCING COSTS	\$ 5,000,000	
IF BONDED:	NUMBER OF YEARS	20	
,	TOTAL PRINCIPAL	\$ 5,000,000	
	TOTAL INTEREST	\$ 2,100,000	
	TOTAL ESTIMATED COST	\$ 7,100,000	



## 2021-2024 PROPOSED SIDEWALK PROGRAM

2021 \$29,000

Dover Road (intersection of Route 108 to Dover Road Pump Station)

2022 \$72,500

Madbury Road (Edgewood Road to Route 4)

2023 \$17,000

**Emerson Road** 

2024 \$5,000

Pettee Brook Parking Lot/Sammy's Market Lot

PROJECT YEAR	2021	PROJECT COST	\$29,000		
DESCRIPTION	Sidewalk Improvements	DEPARTMENT	Public Works - Operations		
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)					

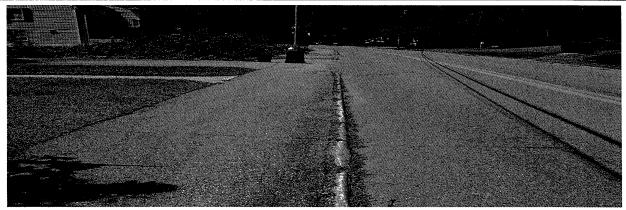
The Public Works Department created a long term sidewalk maintenance program in 2014, mirroring the current road program.

## **DESCRIPTION (TO INCLUDE JUSTIFICATION)**

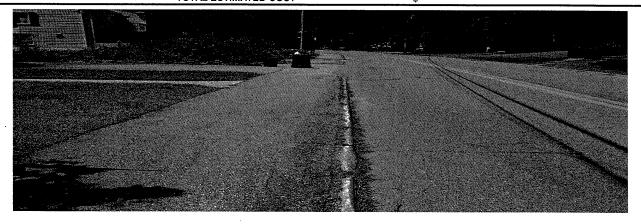
## Dover Road - Intersection of Route 108 to Dover Road Pump Station

* Demolition	2011 ft	\$6,500
* Crushed Gravel/Loam/Seed		\$6,480
* Asphalt Sidewalk	85 tons @ \$148/ton	\$12,580
* Re-set Vertical Granite Curb	490 ft	\$3,430

			<del></del>		 
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	· -		
	FINAL DESIGN AND ENGINEERING	\$	-		
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	- '		
	CONSTRUCTION COSTS	\$	29,000		
	CONTINGENCY	\$			
	TOTAL PROJECT COST	\$	29,000		
FINANCING	OPERATING BUDGET	\$	29,000	•	
	UNH - CASH	\$	_		
	BOND - TOWN PORTION	\$	-		·
	FEDERAL/STATE GRANT	\$.	-		
	CAPITAL RESERVE ACCOUNT	\$	· <u>-</u>		
	TOTAL FINANCING COSTS	\$	29,000		
IF BONDED:	NUMBER OF YEARS		N/A		
	TOTAL PRINCIPAL	\$	. <del>-</del> .		
	TOTAL INTEREST	\$			
	TOTAL ESTIMATED COST	\$			



PROJECT YEAR	2022 P	ROJECT COS	ST.		\$72,500	
DESCRIPTION	Sidewalk Improvements	EPARTMENT	•		Public Works - Operation	ns
IMPETUS FOR PROJEC	T (IE. MANDATED, COUNCIL	GOAL, DEPT	IN	ITIATIVE, E	ETC.)	
The Public Works Departmen	nt created a long term sidewalk main	stananaa nraarar	n in	2011 minus vi	and the assument we all assuments	
The Fubile Works Departine	it Greated a long term sidewalk main	nenance program	11 111	2014, 1111110111	ng trie current road progra	TI.
DESCRIPTION (TO INCI	LUDE JUSTIFICATION)					
Madbury Road (Edgewo	ood Road to Route 4)					
* Demolition	\$5	5,000				
* Crushed Gravel/Loam/Seed	\$8	8,020				
* Asphalt Curb	2851 ft @ \$12.50/lf \$3	35,637				
* Sidewalk Asphalt	120 tons @ \$154/ton \$1	18,480				
Hand Work, Curb Patch	35 tons @ \$154/ton \$5	5,390			4	
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AN		\$			
	FINAL DESIGN AND ENGINEERING	1	\$	<b>.</b>		
	CONSTRUCTION ENGINEERING O	VERSIGHT	\$	-		
	CONSTRUCTION COSTS		\$	72,500		
	CONTINGENCY		\$			
	TOTAL PROJECT COST		\$	72,500	·	
FINANCING	OPERATING BUDGET		\$	72,500		
	UNH - CASH		\$	-		
	BOND - TOWN PORTION		\$	-		
	FEDERAL/STATE GRANT		\$	<del>-</del> '		
	CAPITAL RESERVE ACCOUNT		\$	-		
	TOTAL FINANCING COSTS	-	\$	72,500	,	
IF BONDED:	NUMBER OF YEARS			N/A		
	TOTAL PRINCIPAL		\$	-		
	TOTAL INTEREST		\$	_		
	TOTAL ESTIMATED COST		\$	_		



PROJECT YEAR	2023	PROJECT COST	\$17,000		
DESCRIPTION	Sidewalk Improvements	DEPARTMENT	Public Works - Operations		
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)					
The Public Works Department created a long term sidewalk maintenance program in 2014, mirroring the current road program.					

## DESCRIPTION (TO INCLUDE JUSTIFICATION)

## Emerson Road

* Crack fill/ Repairs	1150 ft	\$4,650
* 1" Asphalt Overlay	78 tons @ \$154/ton	\$12,012
* No Curb		\$0

ECTIMATED COCTO			 	
ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$ -		
•	FINAL DESIGN AND ENGINEERING	\$ -		
	CONSTRUCTION ENGINEERING OVERSIGHT	\$ -		
	CONSTRUCTION COSTS	\$ 17,000		
	CONTINGENCY	\$ 		•
	TOTAL PROJECT COST	\$ 17,000		_
FINANCING	OPERATING BUDGET	\$ 17,000		
	UNH - CASH	\$ • • •		
	BOND - TOWN PORTION	\$ -		
	FEDERAL/STATE GRANT	\$ ·		
	CAPITAL RESERVE ACCOUNT	\$ 		
	TOTAL FINANCING COSTS	\$ 17,000		-
IF BONDED:	NUMBER OF YEARS	N/A		
	TOTAL PRINCIPAL	\$ -		
	TOTAL INTEREST	\$ <del>-</del>		
	TOTAL ESTIMATED COST	\$ -		



PROJECT YEAR	2024	PROJECT COST	\$5,000			
DESCRIPTION	Sidewalk Improvements	DEPARTMENT	Public Works - Operations			
IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)						

The Public Works Department created a long term sidewalk maintenance program in 2014, mirroring the current road program.

## **DESCRIPTION (TO INCLUDE JUSTIFICATION)**

## PETTEE BROOK PARKING LOT/SAMMY'S MARKET

* Demolition	239 ft	\$500
* Crushed Gravel/Loam/Seed		\$1,209
* Asphalt Sidewalk	20 tons @ \$154/ton	\$3,080

ESTIMATED COSTS:	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	- ·	
	FINAL DESIGN AND ENGINEERING	\$	-	·
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-	
	CONSTRUCTION COSTS	\$	5,000	
	CONTINGENCY	\$	-	
	TOTAL PROJECT COST	\$	5,000	
FINANCING	OPERATING BUDGET	\$	5,000	
	UNH - CASH	\$	-	
	BOND - TOWN PORTION	\$	-	
	FEDERAL/STATE GRANT	\$	_	
	CAPITAL RESERVE ACCOUNT	\$	-	
	TOTAL FINANCING COSTS	\$	5,000	
IF BONDED:	NUMBER OF YEARS		N/A	
•	TOTAL PRINCIPAL	\$	-	
	TOTAL INTEREST	_\$	-	
	TOTAL ESTIMATED COST	\$	-	



PROJECT YEAR	2022	EQUIPMENT COST	\$17,500
DESCRIPTION	Mobile Air Compressor Replacement	DEPARTMENT	Public Works - Operations
DESCRIPTION (TO INC	CLUDE JUSTIFICATION)		

Current 2006 Air Compressor is scheduled for replacement in 2022.

This equipment operates all of our pneumatic (air driven) tools, i.e. pavement cutter/drills, outside of the DPW shop.

Equipment to be replaced:

2006 Sullivan/Palatek D210

ESTIMATED COST	PURCHASE PRICE	\$	17,500		
	ACCESSORIES*	• \$	*		
	LESS TRADE-IN**	\$	-	•	
	NET PURCHASE PRICE	\$	17,500		
	*Accessories include lighting, ra	dios, s	striping, misc	. equipment.	
FINANCING	OPERATING BUDGET	\$	17,500		
	UNH - CASH	\$			
4	<b>BOND - TOWN PORTION</b>	\$	-		
	FEDERAL/STATE GRANT	\$	-		
	CAPITAL RESERVE ACCOUNT	\$		•	
	TOTAL FINANCING COSTS	\$	17,500		
IF BONDED:	NUMBER OF YEARS		N/A		
	TOTAL PRINCIPAL	. \$	-		•
	TOTAL INTEREST (EST'D)	\$	<u> </u>		
	TOTAL PROJECT COST	\$	-		



PROJECT YEAR	2022	PROJECT COST	\$53,000
DESCRIPTION	Backhoe Replacement	DEPARTMENT	Public Works- Operations, Water, WW

## **DESCRIPTION (TO INCLUDE JUSTIFICATION):**

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.

ESTIMATED COST	PURCHASE PRICE	\$	53,000	General Fund Portion Only
·	ACCESSORIES*	\$	-	
	LESS TRADE-IN**	\$		
	<b>NET PURCHASE PRICE</b>	\$	53,000	
	*Accessories include lighting,	radio	s, striping	, misc. equipment.
FINANCING	OPERATING BUDGET	\$		
	UNH - CASH	\$	, · .	
	<b>BOND - TOWN PORTION</b>	\$	53,000	
	FEDERAL/STATE GRANT	\$	-	
	CAPITAL RESERVE ACCOUN	\$	-	
	TOTAL FINANCING COSTS	\$	53,000	
IF BONDED:	NUMBER OF YEARS		7	
	TOTAL PRINCIPAL	\$	53,000	
	TOTAL INTEREST (EST'D)	\$	6,200	
	TOTAL PROJECT COST	\$	59,200	



PROJECT YEAR	2022	EQUIPMENT COST	\$156,400
DESCRIPTION	Roadway Sweeper Replacement	DEPARTMENT	Public Works - Operations
DESCRIPTION (TO I	VCLUDE JUSTIFICATION):		

In 2022 the current Elgin Roadway Sweeper will be ten (10) years old and showing signs of deterioration. The DPW sweeps roadways two (2) times per week and for the entire month of March due to winter sanding operations. Broom replacement will run \$600/year.

Equipment to be replaced: 2012 Elgin 2000 Series Sweeper

ESTIMATED COST	PURCHASE PRICE	\$	147,000	
•	ACCESSORIES*	\$	-	
	LESS TRADE-IN**	\$	(4,000)	
	NET PURCHASE PRICE	\$	143,000	
	*Accessories include lighting, rad	lios, stri	ping, misc. equipm	ent.
FINANCING	OPERATING BUDGET	\$	-	
	UNH - CASH	\$		
	<b>BOND - TOWN PORTION</b>	\$	143,000	•
	FEDERAL/STATE GRANT	\$	-	
	CAPITAL RESERVE ACCOUNT	\$	<u>-</u>	
	TOTAL FINANCING COSTS	\$	143,000	
IF BONDED:	NUMBER OF YEARS		7	
	TOTAL PRINCIPAL	\$	143,000	
	TOTAL INTEREST (EST'D)	\$	17,160	
	TOTAL PROJECT COST	\$	160,160	



PROJECT YEAR	2023	PROJECT COST	\$455,000
DESCRIPTION	Dame Road Paving	DEPARTMENT	Public Works- Operations

### IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)

Department Initiative following several conversations with residents.

## DESCRIPTION (TO INCLUDE JUSTIFICATION)

DPW has two options to present for the paving of Dame Road.

#### OPTION 1

Roadside ditching and 20 foot wide pavement over 10,560 feet on both the Durham Point Road end and Newmarket Road end of Dame Road.

Durham Point Road end:

• Grading, Pavement \$108,000
• Drainage \$ 18,000
• Tree Removal \$ 11,500

Total: \$137,500

Newmarket Road end:

• Grading, Pavement \$ 82,000
• Drainage \$ 18,000
• Tree Removal \$ 11,500

PROJECT TOTAL \$249,000 + contingency

#### OPTION 2

Pave the entire 14,560 ft. length of Dame Road:

Pavement- \$343,000
 Drainage- \$36,000
 Tree Removal- \$34,500

PROJECT TOTAL \$413,500 + contingency

ESTIMATED COSTS			OPTION 1		OPTION 2
٠.	FINAL DESIGN AND ENGINEERING	\$	•	\$	-
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-	\$	
	CONSTRUCTION COSTS	\$	249,000	\$	413,500
	CONTINGENCY	\$	13,000	\$	41,500
	TOTAL PROJECT COST	\$	262,000	\$ -	455,000
FINANCING	OPERATING BUDGET	\$	262,000	\$	<b>*</b> .
	UNH - CASH	\$	-	\$	-
•	BOND - TOWN PORTION	\$	-	\$	455,000
	FEDERAL/STATE GRANT	\$	<u> </u>	\$	- '
,	CAPITAL RESERVE ACCOUNT	\$		\$	-
	TOTAL FINANCING COSTS	\$	262,000	\$	455,000
IF BONDED	NUMBER OF YEARS		N/A		10
	TOTAL PRINCIPAL	\$	• •	\$	455,000
	TOTAL INTEREST	_\$	_	\$	87,588
	TOTAL ESTIMATED COST	\$		\$	542,588



PROJECT YEAR	2023	VEHICLE COST	\$27,000
DESCRIPTION	1/2 Ton Pick-Up Replacement	DEPARTMENT	Public Works - Operations
DESCRIPTION (TO IN	CLUDE ILISTIFICATIONI).		

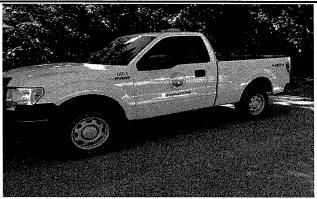
Replace Assistant Director of Operations 2013 F-150 pick-up truck. The truck fleet is currently on a 10 -12 year replacement program. This vehicle is the Assistant Operations Director's daily means of transportation during all work hours. This employee supervises the Operations Division, Building & Grounds Division, Sanitation Division, and Water Division. This vehicle is currently a 2013 F-150 1/2 Ton Pick-up which averages 15,000 miles per year and is scheduled for replacement in 2023.

The current vehicle will be handed down to the Sanitation Division.

Vehicle to be Replaced:

2013 Ford F-150

ESTIMATED COST	PURCHASE PRICE	\$	26,000	
	ACCESSORIES*	\$	1,000	
	LESS TRADE-IN**	\$		
	NET PURCHASE PRICE	\$	27,000	
	*Accessories include lighting, rac	lios, stri	iping, misc. e	quipment.
FINANCING	OPERATING BUDGET	\$	-	
	UNH - CASH	\$	-	
	<b>BOND - TOWN PORTION</b>	\$	27,000	
•	FEDERAL/STATE GRANT	\$		
	CAPITAL RESERVE ACCOUNT	\$		
	TOTAL FINANCING COSTS	\$	27,000	
IF BONDED:	NUMBER OF YEARS	\$	7	•
	TOTAL PRINCIPAL	\$	27,000	
	TOTAL INTEREST (EST'D)	\$	3,240	
	TOTAL PROJECT COST	\$	30,240	



PROJECT YEAR	2023	VEHICLE COST	\$42,000
DESCRIPTION	Aerial Bucket Truck	DEPARTMENT	Public Works - Operations
DECEDIBITION (TO INC	LUDE HICTICICATIONS		

#### **DESCRIPTION (TO INCLUDE JUSTIFICATION):**

The 2011 Aerial Bucket Truck is scheduled for replacement in 2023.

This vehicle is utilized for traffic control devices, repairs and installation, and any projects which require a height above twelve (12) feet. The budget impact for this vehicle is an annual state inspection (\$300) for the lift mechanism and normal maintenance i.e. tires oil/filter.

Vehicle to be Replaced:

2011 Ford F-450

ESTIMATED COST	PURCHASE PRICE	\$	47,000		
	ACCESSORIES*	\$	-		
	LESS TRADE-IN**	\$	(5,000)		•
	NET PURCHASE PRICE	\$	42,000		
	*Accessories include lighting, ra	dios, s	triping, misc. ed	quipment.	
FINANCING	OPERATING BUDGET	\$	-		
	UNH - CASH	\$	-		
	<b>BOND - TOWN PORTION</b>	\$	42,000		
	FEDERAL/STATE GRANT	\$	-		
	CAPITAL RESERVE ACCOUNT	\$			
	TOTAL FINANCING COSTS	\$	42,000		
IF BONDED:	NUMBER OF YEARS		7		
	TOTAL PRINCIPAL	\$	42,000	•	
	TOTAL INTEREST (EST'D)	\$	5,040	•	•
	TOTAL PROJECT COST	\$	47,040		



PROJECT YEAR	2023 - 2027	VEHICLE COST	Year 2023 - \$178,600
	Dump Truck 35,000 GVW		
DESCRIPTION	Replacement	DEPARTMENT	Public Works - Operations
DESCRIPTION (TO IN	CLUDE IUSTIFICATIONI)		

Purchase of a 35,000 LB GVW (Gross Vehicle Weight) dump truck with sand/salt spreader, side wing and front plow.

Public Works has six 35,000 LB GVW dump trucks that are replaced on a 10 year replacement schedule. These dump trucks operate up to 8 hours per day 4-5 days a week for various hauling and construction projects and comprise the front line snow removal equipment for all Town roads during the winter months. The Town completes all of its snow removal operations in house with this equipment. DPW does not have any backup trucks so dependability is very important to our operation

Year 2023	Vehicle to be Replaced:	Truck # 18, 2013 Peterbilt					
Year 2024	Vehicle to be Replaced:	Truck # 7, 2013 Peterbilt					
Year 2025 Vehicle to be Replaced:	Vehicle to be Replaced:	Truck # 1, 2015 International/Navistar			Truck # 1, 2015 International/Navistar		
, Year 2026	Vehicle to be Replaced:	Truck # 14, 2015 International/Navistar					
Year 2027	Vehicle to be Replaced:	2016 International/Navistar					
					•		
ESTIMATED COST	PURCHASE PRICE	\$	182,500				
	ACCESSORIES*	\$	1,100				
•	LESS TRADE-IN**	\$	(5,000)				
	NET PURCHASE PRICE	\$	178,600				
	*Accessories include lighting, ra	dios, st	riping, misc	. equipment.			
FINANCING	OPERATING BUDGET	\$	=				
	UNH - CASH	\$	-	•			
	BOND - TOWN PORTION	\$	178,600				
•	FEDERAL/STATE GRANT	\$					
	CAPITAL RESERVE ACCOUNT	\$	-				
	TOTAL FINANCING COSTS	\$	178,600				
IF BONDED:	NUMBER OF YEARS		7				
	TOTAL PRINCIPAL	\$	178,600				
	TOTAL INTEREST (EST'D)	\$	21,400				
i							



PROJECT YEAR	2027	EQUIPMENT COST	\$180,000
DESCRIPTION	Sidewalk Plow Tractor Replacement	DEPARTMENT	Public Works - Operations
DESCRIPTION (TO	INCLUDE JUSTIFICATION)		

Replacement of the current 2012 McClean Sidewalk Snow tractor is needed. The new breed of sidewalk tractors are all multifunctional with many attachment options such as a snow plow, snow blower, dump body (with sand/salt spreader), flail boom mower, front broom and mower deck.

This sidewalk tractor is on a 14 year replacement schedule. Durham has over 14 miles of sidewalks and has always been a walking community. The new sidewalk snow tractor would meet all snow removal, maintenance and de-icing needs. This tractor will also be used during the summer months for misc. projects such as sidewalk sweeping and roadside mowing. This new tractor will require less maintenance time/dollars due to initial 3 year warranty.

Vehicle to be Replaced:

2012 Mcclean Sidewalk Tractor

ESTIMATED COST	PURCHASE PRICE	\$	106,500	
	ACCESSORIES*	\$	-	
	LESS TRADE-IN**	\$	-	
	NET PURCHASE PRICE	\$	106,500	
	*Accessories include lighting, rad	dios, st	triping, misc.	equipment.
FINANCING	OPERATING BUDGET	\$	-	
,	UNH - CASH	\$	-	·
	<b>BOND - TOWN PORTION</b>	\$	106,500	
	FEDERAL/STATE GRANT	\$	<b>-</b> '	
,	<b>CAPITAL RESERVE ACCOUNT</b>	\$	-	
	TOTAL FINANCING COSTS	\$	106,500	
IF BONDED:	NUMBER OF YEARS		7	
	TOTAL PRINCIPAL	\$	106,500	
	TOTAL INTEREST (EST'D)	\$	12,780	
	TOTAL PROJECT COST	\$	119,280	

