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# APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Recreation</b>																				
Vehicle Purchase			1	20,000																
Wagon Hill Parking					1	26,500														
<b>RECREATION TOTALS</b>				20,000		26,500														
<b>Planning</b>																				
PM Traffic Model			1	46,600																
Technology Drive Infrastructure Improvement																			1	2,145,000
<b>PLANNING TOTALS</b>				46,600																2,145,000
<b>Police Department</b>																				
Vehicle Replacement (Purchase 2/Yr)	1	62,000	1	62,000	1	93,000	1	62,000	1	62,000	1	93,000	1	64,000	1	64,000	1	96,000	1	64,000
Parking Meter Kiosks Purchases	2	150,000																		
Police Facility Upgrades					2	45,000			2	900,000										
<b>POLICE TOTALS</b>		212,000		62,000		138,000		62,000		962,000		93,000		64,000		64,000		96,000		64,000
<b>Fire Department</b>																				
Engine 1 Replacement	1	525,000																		
Water Rescue Vehicles Purchase	2	28,000																		
Thermal Imaging Camera Replacement	3	12,000			3	15,000											3	15,000		
Vehicle Air Bag Lifts Replacements	4	10,000																		
Deputy Chief's Vehicle Replacement (Explorer)			1	45,000																
Hurst Tool Replacement			2	50,000																
New Fire Station					1	110,500	1	7,671,400												
Confined Space Trailer Replacement					2	50,000														
Engine 2 Replacement									1	650,000										
Fire Prevention Vehicle Replacement (Explorer)									2	45,000										
Chief's Vehicle Replacement (Tahoe)									3	50,000										

## APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
Forestry Unit Replacement									4	70,000										
Medic 1 Replacement													1	100,000						
Radio Antenna Upgrades													2	250,000						
Defibrillator Replacement													3	40,000						
Washing Extractor/Dryer Purchase													4	15,000						
Asst. Chief Vehicle Replacement (Suburban)															1	70,000				
Utility Vehicle Replacement (Silverado)																	1	55,000		
Portable Radio Upgrades																	2	140,000		
Turnout Gear Replacement																	4	110,000		
<b>FIRE TOTALS</b>		575,000		95,000		175,500		7,671,400		815,000				405,000		70,000		320,000		
<b>Public Works - Engineering Division</b>																				
Stormwater Management System Improvements	1	499,500	1	483,000	1	483,000	1	465,000	1	465,000	1	440,000	1	440,000	1	400,000	1	350,000	1	350,000
Culvert & Outfalls Improvements Program	2	21,200	2	149,515	2	92,696	2	95,877	2	92,355	2	89,114	2	97,207						
Compact SUV Purchase	3	7,000																		
<b>PW - ENGINEERING TOTALS</b>		527,700		632,515		575,696		560,877		557,355		529,114		537,207		400,000		350,000		350,000
<b>Public Works - Operations Division</b>																				
Road Resurfacing	1	283,431	1	377,839	1	425,647	1	339,560	1	371,151	1	552,409	1	290,043	1	326,672	1	427,034	1	409,630
Dump Truck Replacement	2	139,000	2	141,000	2	143,000					2	149,000						2		157,000
Coe Drive Sidewalk	3	68,800																		
Longmarsh Road Culvert Replacement	4	765,000																		
Sidewalk Improvements	5	51,800	5	39,015	3	34,200	2	16,222												
Downtown Parking Lot Paving	6	125,000																		
Crommets Creek Bridge Repair			3	359,000																
Main Street/College Road Traffic Signal Panel			4	30,000																
Solar Message Trailer and Panels					4	37,000														
Sidewalk Plow Tractor Replacement													2	125,000						



# APPROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
Front End Loader Replacement													3	254,000						
Backhoe Replacement (cost split w/Water & WW)													4	54,250						
Mobile Air Compressor													5	15,142						
Roadway Sweeper																2	154,300			
Aerial Bucket Truck																		3	54,000	
<b>PW - OPERATIONS TOTALS</b>		1,433,031		946,854		639,847		355,782		371,151		701,409		738,435		326,672		581,334		620,630
<b>Public Works- Buildings &amp; Grounds Division</b>																				
One-Half Ton Pickup Truck Replacement			1	16,200																
Holiday Decorations			2	16,717																
One Ton Dump Truck Replacement					1	46,000														
Old Landing Park Improvements							1	86,474												
3/4 Ton Pickup Replacement																1	26,000			
<b>PW - BLDGS &amp; GRDS TOTALS</b>		-		32,917		46,000		86,474		-		-		-		-		26,000		-
<b>Public Works - Sanitation Division</b>																				
Refuse Collection Vehicle Replacement	1	235,000																		
Recycling Facility Repairs	2	100,000																		
Recycling Collection Vehicle Replacement			1	104,000																
Roll-off Truck															1	226,000				
Skid Steer																		1	45,000	
<b>PW - SANITATION TOTALS</b>		335,000		104,000		-		-		-		-		-		226,000		-		45,000
<b>RECREATION TOTAL</b>		-		20,000		26,500		-		-		-		-		-		-		-
<b>PLANNING TOTAL</b>		-		46,600		-		-		-		-		-		-		-		2,145,000
<b>POLICE TOTAL</b>		212,000		62,000		138,000		62,000		962,000		93,000		64,000		64,000		96,000		64,000
<b>FIRE TOTAL</b>		575,000		95,000		175,500		7,671,400		815,000		-		405,000		70,000		320,000		-
<b>PUBLIC WORKS TOTALS</b>		2,295,731		1,716,286		1,261,543		1,003,133		928,506		1,230,523		1,275,642		952,672		957,334		1,015,630
<b>TOTAL GENERAL FUND</b>		\$3,082,731		\$1,939,886		\$1,601,543		\$8,738,533		\$2,705,506		\$1,323,523		\$1,744,642		\$1,086,672		\$1,373,334		\$3,224,630

# APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Water Fund</b>																				
Spruce Hole Well Development	1	1,378,000																		
Wiswall Dam Spillway	2	70,000	1	465,000																
Backhoe Replacement (Cost split w/Oper. & WW)												1	27,125							
One Ton Utility Truck Replacement																1	40,000			
<b>TOTAL WATER FUND</b>		<b>\$1,448,000</b>		<b>\$465,000</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$27,125</b>		<b>\$0</b>		<b>\$40,000</b>		<b>\$0</b>
<b>Wastewater Fund</b>																				
WWTP Phase III	1	230,000	1	450,000	1	2,850,000	1	2,150,000	1	1,600,000										
Wastewater Facilities Plan	3	560,000	2	354,000	2	449,000	2	310,000	2	270,000	1	481,000	1	467,000	1	436,000	1	475,000	1	478,000
Diesel Generator Replacement	2	425,000																		
Chemical Disinfectant Building	4	63,000	3	847,000																
Collection System Upgrades	5	50,000	4	520,000																
18" Force Main Replacement									3	252,000	2	2,200,000								
Backhoe Replacement (Cost split w/Oper. & Water)												2	27,125							
3/4 Ton Pickup Truck Replacement									4	31,900	3	32,900								
Commercial Lawnmower																2	16,440			
<b>TOTAL WASTEWATER FUND</b>		<b>\$1,328,000</b>		<b>\$2,171,000</b>		<b>\$3,299,000</b>		<b>\$2,460,000</b>		<b>\$2,153,900</b>		<b>\$2,713,900</b>		<b>\$494,125</b>		<b>\$436,000</b>		<b>\$491,440</b>		<b>\$478,000</b>
<b>STONE QUARRY DRIVE TIF DISTRICT</b>																				
Phase III - Infrastructure Improvements (Trail to Durham Business Park)							1	79,030												
<b>TOTAL SQD TIF DISTRICT</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$79,030</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>
<b>DOWNTOWN TIF DISTRICT</b>																				
Implementation of Improvements	1	100,000	1	118,080			1	77,297			1	651,871								
<b>TOTAL DT TIF DISTRICT</b>		<b>\$100,000</b>		<b>\$118,080</b>		<b>\$0</b>		<b>\$77,297</b>		<b>\$0</b>		<b>\$651,871</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>
<b>CHURCHILL RINK</b>																				
Churchill Rink Renovations			1	300,000			1	100,000	1	100,000										
<b>TOTAL CHURCHILL RINK</b>		<b>\$0</b>		<b>\$300,000</b>		<b>\$0</b>		<b>\$100,000</b>		<b>\$100,000</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>
<b>TOTAL ALL FUNDS</b>		<b>\$5,958,731</b>		<b>\$4,993,966</b>		<b>\$4,900,643</b>		<b>\$11,462,860</b>		<b>\$4,969,406</b>		<b>\$4,689,294</b>		<b>\$2,265,892</b>		<b>\$1,522,672</b>		<b>\$1,904,774</b>		<b>\$3,702,630</b>

## 2014 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Trade & Other	Total
			Town	UNH				
<b><u>General Fund</u></b>								
Police Department								
Vehicle Replacement	62,000							62,000
Parking Kiosk Purchase							150,000	150,000
Fire Department								
Engine 1 Replacement			262,500	262,500				525,000
Water Rescue Vehicles Purchase						28,000		28,000
Thermal Imaging Camera Replacement						12,000		12,000
Vehicle Air Bag Lifts Replacement						10,000		10,000
Public Works								
Engineering Division								
Stormwater Management System Improvements			249,750	249,750				499,500
Culvert & Outfalls Improvement Program	21,200							21,200
Compact SUV Purchase	7,000							7,000
Operations Division								
Road Resurfacing	283,431							283,431
Dump Truck 33,400 GVW			139,000					139,000
Coe Drive Sidewalk Improvements			68,800					68,800
Longmarsh Road Culvert Replacement			191,250		573,750			765,000
Bagdad Road Sidewalk Improvements	51,800							51,800
Downtown Parking Lot Paving							125,000	125,000
Sanitation Division								
Refuse Collection Vehicle			235,000					235,000
Recycling Facility Repairs			100,000					100,000
<b>Total General Fund</b>	<b>425,431</b>	<b>0</b>	<b>1,246,300</b>	<b>512,250</b>	<b>573,750</b>	<b>50,000</b>	<b>275,000</b>	<b>3,082,731</b>

## 2014 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Trade & Other	Total
			Town	UNH				
<b><u>Water Fund</u></b>								
Spruce Hole Well Development		918,667	459,333					1,378,000
Wiswall Dam Spillway			70,000					70,000
<b>Total Water Fund</b>	<b>0</b>	<b>918,667</b>	<b>529,333</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,448,000</b>
<b><u>Wastewater Fund</u></b>								
WWTP Phase III			76,667	153,333				230,000
Wastewater Facilities Plan			186,667	373,333				560,000
Diesel Generator Replacement			141,666	283,334				425,000
Chemical Disinfectant Building	21,000	42,000						63,000
Collection System Upgrades	50,000							50,000
<b>Total Wastewater Fund</b>	<b>71,000</b>	<b>42,000</b>	<b>405,000</b>	<b>810,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,328,000</b>
<b><u>DOWNTOWN TIF DISTRICT</u></b>								
Implementation of Improvements							100,000	100,000
<b>Total Downtown TIF District</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>100,000</b>
<b><u>Total All Projects</u></b>	<b>496,431</b>	<b>960,667</b>	<b>2,180,633</b>	<b>1,322,250</b>	<b>573,750</b>	<b>50,000</b>	<b>375,000</b>	<b>5,958,731</b>

Other Funding Sources -

- \$ 150,000 Parking Impact Fees
- \$ 125,000 Parking Impact Fees
- \$ 100,000 TIF District
- \$ 100,000 Churchill Rink Fund Balance

# 2015 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Trade & Other	Total
			Town	UNH				
<b><u>General Fund</u></b>								
Recreation								
Vehicle Purchase	20,000							20,000
Planning								
PM Traffic Model	23,300	23,300						46,600
Police Department								
Vehicle Replacement	62,000							62,000
Fire Department								
Deputy Chief Vehicle Replacement						45,000		45,000
Hurst Tool Replacement						50,000		50,000
Public Works								
Engineering Division								
Stormwater Management System Improvements			241,500	241,500				483,000
Culvert & Outfalls Improvement Program	149,515							149,515
Operations Division								
Road Resurfacing	377,839							377,839
Dump Truck 33,400 GVW			141,000					141,000
Crommets Creek Bridge Repair			359,000					359,000
Main Street/College Road Traffic Signal	30,000							30,000
Sidewalk Improvements	39,015							39,015
Buildings & Grounds Division								
Holiday Decorations	16,717							16,717
1/2 Ton Pickup Truck Replacement	16,200							16,200
Sanitation Division								
Recycling Collection Vehicle			104,000					104,000
<b>Total General Fund</b>	<b>734,586</b>	<b>23,300</b>	<b>845,500</b>	<b>241,500</b>	<b>0</b>	<b>95,000</b>	<b>0</b>	<b>1,939,886</b>

## 2015 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Trade & Other	Total
			Town	UNH				
<b><u>Water Fund</u></b>								
Wiswall Dam Spillway			465,000					465,000
<b>Total Water Fund</b>	0	0	465,000	0	0	0	0	465,000
<b><u>Wastewater Fund</u></b>								
WWTP Phase III			150,000	300,000				450,000
Wastewater Facilities Plan			118,000	236,000				354,000
Chemical Disinfectant Building			282,333	564,667				847,000
Collection System Upgrade			520,000					520,000
<b>Total Wastewater Fund</b>	0	0	1,070,333	1,100,667	0	0	0	2,171,000
<b><u>DOWNTOWN TIF DISTRICT</u></b>								
Implementation of Improvements							118,080	118,080
<b>Total Downtown TIF District</b>	0	0	0	0	0	0	118,080	118,080
<b><u>Churchill Rink Fund</u></b>								
Renovations			300,000					300,000
<b>Total Churchill Rink Fund</b>	0	0	300,000	0	0	0	0	300,000
<b><u>Total All Projects</u></b>	<b>734,586</b>	<b>23,300</b>	<b>2,680,833</b>	<b>1,342,167</b>	<b>0</b>	<b>95,000</b>	<b>118,080</b>	<b>4,993,966</b>

## 2016 CAPITAL IMPROVEMENTS PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Trade & Other	Total
			Town	UNH				
<b><u>General Fund</u></b>								
Recreation								
Wagon Hill Parking	26,500							26,500
Police Department								
Vehicle Replacement	93,000							93,000
Facility Upgrades						45,000		45,000
Fire Department								
Fire Station			55,250	55,250				110,500
Thermal Imaging Camera Replacement						15,000		15,000
Confined Space Trailer Equipment Replacement						50,000		50,000
Public Works								
Engineering Division								
Stormwater Management System Improvements			241,500	241,500				483,000
Culvert & Outfalls Improvement Program	92,696							92,696
Operations Division								
Road Resurfacing	425,647							425,647
Dump Truck Replacement			143,000					143,000
Solar Message Trailer and Panels	37,000							37,000
Sidewalk Improvements	34,200							34,200
Buildings & Grounds Division								
1 Ton Dump Truck			46,000					46,000
<b>Total General Fund</b>	<b>709,043</b>	<b>0</b>	<b>485,750</b>	<b>296,750</b>	<b>0</b>	<b>110,000</b>	<b>0</b>	<b>1,601,543</b>
<b><u>Wastewater Fund</u></b>								
WWTP Phase III			950,000	1,900,000				2,850,000
Wastewater Facilities Plan			149,667	299,333				449,000
<b>Total Wastewater Fund</b>	<b>0</b>	<b>0</b>	<b>1,099,667</b>	<b>2,199,333</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,299,000</b>
<b>Total All Projects</b>	<b>709,043</b>	<b>0</b>	<b>1,585,417</b>	<b>2,496,083</b>	<b>0</b>	<b>110,000</b>	<b>0</b>	<b>4,900,543</b>

## 2017 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Trade & Other	Total
			Town	UNH				
<b><u>General Fund</u></b>								
Police Department Vehicle Replacement	62,000							62,000
Fire Department Fire Station			3,835,700	3,835,700				7,671,400
Public Works Engineering Division Stormwater Management System Improvements			232,500	232,500				465,000
Culvert & Outfalls Improvement Program	95,877							95,877
Operations Division Road Resurfacing	339,560							339,560
Sidewalk Improvements	16,222							16,222
Buildings & Grounds Division Old Landing Park Improvements	86,474							86,474
<b>Total General Fund</b>	<b>600,133</b>	<b>0</b>	<b>4,068,200</b>	<b>4,068,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,736,533</b>
<b><u>Wastewater Fund</u></b>								
WWTP Phase III			716,667	1,433,333				2,150,000
Wastewater Facilities Plan			103,333	206,667				310,000
<b>Total Wastewater Fund</b>	<b>0</b>	<b>0</b>	<b>820,000</b>	<b>1,640,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,460,000</b>
<b><u>STONE QUARRY DRIVE TIF DISTRICT</u></b>								
Phase III Infrastructure Improvements							79,030	79,030
<b>Total Downtown TIF District</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>79,030</b>	<b>79,030</b>
<b><u>DOWNTOWN TIF DISTRICT</u></b>								
Implementation of Improvements							77,297	77,297
<b>Total Downtown TIF District</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>77,297</b>	<b>77,297</b>
<b><u>Churchill Rink Fund</u></b>								
Renovations			100,000					100,000
<b>Total Churchill Rink Fund</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>
<b>Total All Projects</b>	<b>600,133</b>	<b>0</b>	<b>4,988,200</b>	<b>5,708,200</b>	<b>0</b>	<b>0</b>	<b>156,327</b>	<b>11,452,860</b>



## 2018 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Other	Total
			Town	UNH				
<b><u>General Fund</u></b>								
Police Department								
Vehicle Replacement	62,000							62,000
Police Facility Upgrades			900,000					900,000
Fire Department								
Engine 2 Replacement			325,000	325,000				650,000
Fire Prevention Vehicle Replacement						45,000		45,000
Fire Chief Vehicle Replacement						50,000		50,000
Forestry Unit Replacement						70,000		70,000
Public Works								
Engineering Division								
Stormwater Management System Improvements			232,500	232,500				465,000
Culvert & Outfalls Improvement Program	92,355							92,355
Operations Division								
Road Resurfacing	371,151							371,151
<b>Total General Fund</b>	<b>525,506</b>	<b>0</b>	<b>1,457,500</b>	<b>557,500</b>	<b>0</b>	<b>165,000</b>	<b>0</b>	<b>2,705,506</b>
<b><u>Water Fund</u></b>								
								0
<b>Total Water Fund</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b><u>Wastewater Fund</u></b>								
WWTP Phase III			533,333	1,066,667				1,600,000
18" Force Main Replacement						252,000		252,000
Wastewater Facilities Plan			90,000	180,000				270,000
3/4 Ton Pickup Replacement							31,900	31,900
<b>Total Wastewater Fund</b>	<b>0</b>	<b>0</b>	<b>623,333</b>	<b>1,246,667</b>	<b>0</b>	<b>252,000</b>	<b>31,900</b>	<b>2,153,900</b>
<b><u>Churchill Rink Fund</u></b>								
Renovations			100,000					100,000
<b>Total Churchill Rink Fund</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>
<b>Total All Projects</b>	<b>525,506</b>	<b>0</b>	<b>2,180,833</b>	<b>1,804,167</b>	<b>0</b>	<b>417,000</b>	<b>31,900</b>	<b>4,959,406</b>

## 2019 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Other	Total
			Town	UNH				
<b><u>General Fund</u></b>								
Police Department Vehicle Replacement	93,000							93,000
Fire Department								
Public Works Engineering Division Stormwater Management System Improvements Culvert & Outfalls Improvement Program	89,114		220,000	220,000				440,000 89,114
Operations Division Road Resurfacing Dump Truck Replacement	552,409		149,000					552,409 149,000
<b>Total General Fund</b>	<b>734,523</b>	<b>0</b>	<b>369,000</b>	<b>220,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,323,523</b>
<b><u>Water Fund</u></b>								
<b>Total Water Fund</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b><u>Wastewater Fund</u></b>								
Wastewater Facilities Plan			160,333	320,667				481,000
18" Force Main Replacement			733,333	1,466,667				2,200,000
3/4 Ton Pickup Replacement	10,967	21,933						32,900
<b>Total Wastewater Fund</b>	<b>10,967</b>	<b>21,933</b>	<b>893,666</b>	<b>1,787,334</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,713,900</b>
<b><u>DOWNTOWN TIF DISTRICT</u></b>								
Implementation of Improvements							651,871	651,871
<b>Total Downtown TIF District</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>651,871</b>	<b>651,871</b>
<b>Total All Projects</b>	<b>745,490</b>	<b>21,933</b>	<b>1,262,666</b>	<b>2,007,334</b>	<b>0</b>	<b>0</b>	<b>651,871</b>	<b>4,689,294</b>

## 2020 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Other	Total
			Town	UNH				
<b><u>General Fund</u></b>								
Police Department								
Vehicle Replacement	64,000							64,000
Fire Department								
Medic 1 Replacement						100,000		100,000
Radio Antenna Upgrades						250,000		250,000
Defibrillator Replacement						40,000		40,000
Washing Extractor/Dryer Purchase						15,000		15,000
Public Works								
Engineering Division								
Stormwater Management System Improvements			220,000	220,000				440,000
Culvert & Outfalls Improvement Program	97,207							97,207
Operations Division								
Road Resurfacing	290,043							290,043
Sidewalk Plow Tractor Replacement			125,000					125,000
Front End Loader Replacement			254,000					254,000
Backhoe Replacement (split w/Water & WW)	54,250							54,250
Mobile Air Compressor	15,142							15,142
<b>Total General Fund</b>	<b>520,642</b>	<b>0</b>	<b>599,000</b>	<b>220,000</b>	<b>0</b>	<b>405,000</b>	<b>0</b>	<b>1,744,642</b>
<b><u>Water Fund</u></b>								
Backhoe Replacement (split w/Operations & WW)	27,125							27,125
<b>Total Water Fund</b>	<b>27,125</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27,125</b>
<b><u>Wastewater Fund</u></b>								
Wastewater Facilities Plan			155,667	311,333				467,000
Backhoe Replacement (split w/Operations & Water)	9,042	18,083						27,125
<b>Total Wastewater Fund</b>	<b>9,042</b>	<b>18,083</b>	<b>155,667</b>	<b>311,333</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>494,125</b>
<b>Total All Projects</b>	<b>556,809</b>	<b>18,083</b>	<b>754,667</b>	<b>531,333</b>	<b>0</b>	<b>405,000</b>	<b>0</b>	<b>2,265,892</b>

## 2021 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Other	Total
			Town	UNH				
<b><u>General Fund</u></b>								
Police Department Vehicle Replacement	64,000							64,000
Fire Department Asst. Chief Vehicle Replacement						70,000		70,000
Public Works Engineering Division Stormwater Management System Improvements			200,000	200,000				400,000
Operations Division Road Resurfacing	326,672							326,672
Sanitation Division Roll-off Truck Replacement			226,000					226,000
<b>Total General Fund</b>	<b>390,672</b>	<b>0</b>	<b>426,000</b>	<b>200,000</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>1,086,672</b>
<b><u>Water Fund</u></b>								
<b>Total Water Fund</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b><u>Wastewater Fund</u></b>								
Wastewater Facilities Plan			145,333	290,667				436,000
<b>Total Wastewater Fund</b>	<b>0</b>	<b>0</b>	<b>145,333</b>	<b>290,667</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>436,000</b>
<b>Total All Projects</b>	<b>390,672</b>	<b>0</b>	<b>571,333</b>	<b>490,667</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>1,522,672</b>

## 2022 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Other	Total
			Town	UNH				
<b><u>General Fund</u></b>								
Police Department								
Vehicle Replacement	96,000							96,000
Fire Department								
Utility Vehicle Replacement						55,000		55,000
Radio Upgrades						140,000		140,000
Thermal Imaging Camera Replacement						15,000		15,000
Turnout Gear Replacement						110,000		110,000
Public Works								
Engineering Division								
Stormwater Management System Improvements			175,000	175,000				350,000
Operations Division								
Road Resurfacing	427,034							427,034
Roadway Sweeper			154,300					154,300
Buildings & Grounds Division								
3/4 Ton Pickup Replacement	26,000							26,000
<b>Total General Fund</b>	<b>549,034</b>	<b>0</b>	<b>329,300</b>	<b>175,000</b>	<b>0</b>	<b>320,000</b>	<b>0</b>	<b>1,373,334</b>
<b><u>Water Fund</u></b>								
One Ton Utility Truck Replacement	40,000							40,000
<b>Total Water Fund</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>
<b><u>Wastewater Fund</u></b>								
Wastewater Facilities Plan			158,333	316,667				475,000
Commercial Lawn Mower	5,480	10,960						16,440
<b>Total Wastewater Fund</b>	<b>5,480</b>	<b>10,960</b>	<b>158,333</b>	<b>316,667</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>491,440</b>
<b><u>Total All Projects</u></b>	<b>594,514</b>	<b>10,960</b>	<b>487,633</b>	<b>491,667</b>	<b>0</b>	<b>320,000</b>	<b>0</b>	<b>1,904,774</b>

## 2023 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	UNH	Bonding		State & Federal	Capital Reserve	Other	Total
			Town	UNH				
<b><u>General Fund</u></b>								
Planning Technology Drive Infrastructure Improvements			2,145,000					2,145,000
Police Department Vehicle Replacement	64,000							64,000
Fire Department								0
Public Works Engineering Division Stormwater Management System Improvements			175,000	175,000				350,000
Operations Division Road Resurfacing	409,630							409,630
Dump Truck Replacement			157,000					157,000
Aerial Bucket Truck Replacement	54,000							54,000
Sanitation Division Skid Steer Replacement	45,000							45,000
<b>Total General Fund</b>	<b>572,630</b>	<b>0</b>	<b>2,477,000</b>	<b>175,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,224,630</b>
<b><u>Water Fund</u></b>								0
<b>Total Water Fund</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b><u>Wastewater Fund</u></b>								
Wastewater Facilities Plan			159,333	318,667				478,000
<b>Total Wastewater Fund</b>	<b>0</b>	<b>0</b>	<b>159,333</b>	<b>318,667</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>478,000</b>
<b><u>Total All Projects</u></b>	<b>572,630</b>	<b>0</b>	<b>2,636,333</b>	<b>493,667</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,702,630</b>

# GENERAL FUND PROPOSED BOND SCHEDULE

PROJECT NAME	PROJECT YEAR	BOND LENGTH	AMOUNT TO BE BONDED	ESTIMATED INTEREST COSTS	TOTAL ESTIMATED COST	2014 PRINCIPAL	2014 INTEREST	2015 PRINCIPAL	2015 INTEREST	2016 PRINCIPAL	2016 INTEREST	2017 PRINCIPAL	2017 INTEREST	2018 PRINCIPAL	2018 INTEREST	2019 PRINCIPAL	2019 INTEREST	2020 PRINCIPAL	2020 INTEREST	2021 PRINCIPAL	2021 INTEREST	2022 PRINCIPAL	2022 INTEREST	2023 PRINCIPAL	2023 INTEREST	2024 PRINCIPAL	2024 INTEREST
Municipal Network	2008	10'	\$120,000	\$22,138	\$142,138			\$15,000	\$4,748	\$15,000	\$3,885	\$15,000	\$3,330	\$15,000	\$2,775	\$10,000	\$2,220	10000	\$1,850	\$10,000	\$1,480	\$10,000	\$1,110	\$10,000	\$740	\$10,000	\$370
Bennett Road Culvert	2011/2012	15	\$168,600	\$44,111	\$212,711			\$15,000	\$5,425	\$15,000	\$4,800	\$15,000	\$4,375	\$10,000	\$3,850	\$10,000	\$3,500	\$10,000	\$3,150	\$10,000	\$2,800	\$10,000	\$2,450	\$10,000	\$2,100	\$10,000	\$1,750
Peltee Brook Lane Corridor	2012	10	\$75,000	\$25,095	\$100,095			\$15,000	\$3,600	\$15,000	\$3,150	\$15,000	\$2,700	\$15,000	\$2,250	\$15,000	\$1,800	\$15,000	\$1,350	\$15,000	\$900	\$15,000	\$450	\$15,000	\$225	\$15,000	\$112
Longmarsh Road Culvert	2012	15	\$12,750	\$43,479	\$56,229			\$15,000	\$5,250	\$15,000	\$4,725	\$10,000	\$4,200	\$10,000	\$3,650	\$10,000	\$3,500	\$10,000	\$2,800	\$10,000	\$2,450	\$10,000	\$2,100	\$10,000	\$1,750	\$10,000	\$1,400
Crommets Creek Bridge	2012	10	\$49,000	\$9,719	\$58,719			\$5,000	\$1,575	\$5,000	\$1,400	\$5,000	\$1,225	\$5,000	\$1,050	\$5,000	\$875	\$5,000	\$700	\$5,000	\$525	\$5,000	\$350	\$5,000	\$175	\$5,000	\$100
Madbury/Garrison Sidewalk	2013	5	\$102,280	\$8,661	\$110,921			\$20,000	\$2,400	\$20,000	\$1,732	\$20,000	\$1,064	\$20,000	\$400												
Main Street Railroad Bridge	2013	5	\$78,500	\$7,618	\$86,118			\$18,500	\$2,743	\$15,000	\$1,950	\$15,000	\$1,463	\$15,000	\$975	\$15,000	\$488										
Rubber Tire Excavator	2013	7	\$215,000	\$30,140	\$245,140			\$30,000	\$6,300	\$30,000	\$5,250	\$30,000	\$4,200	\$30,000	\$3,150	\$30,000	\$2,100	\$30,000	\$1,050								
Fire Station	2013	10	\$327,400	\$80,266	\$387,666			\$37,400	\$12,318	\$35,000	\$10,150	\$35,000	\$8,925	\$35,000	\$7,700	\$35,000	\$6,475	\$30,000	\$5,250	\$30,000	\$4,200	\$30,000	\$3,150	\$30,000	\$2,100	\$30,000	\$1,050
Stormwater Management	2013	15	\$520,000	\$156,150	\$676,150			\$35,000	\$18,188	\$35,000	\$16,875	\$35,000	\$16,583	\$35,000	\$14,250	\$35,000	\$12,938	\$35,000	\$11,625	\$35,000	\$10,313	\$35,000	\$9,000	\$35,000	\$7,688	\$35,000	\$6,375
New Town Hall	2013	20	\$678,700	\$369,054	\$1,247,754			\$45,000	\$35,275	\$45,000	\$33,363	\$45,000	\$31,450	\$45,000	\$29,538	\$45,000	\$27,625	\$45,000	\$25,713	\$45,000	\$23,800	\$45,000	\$21,888	\$45,000	\$19,975	\$45,000	\$18,063
Engine 1	2014	10	\$525,000	\$86,625	\$611,625			\$52,500	\$15,750	\$52,500	\$14,175	\$52,500	\$12,600	\$52,500	\$11,025	\$52,500	\$9,450	\$52,500	\$7,875	\$52,500	\$6,300	\$52,500	\$4,725	\$52,500	\$3,150	\$52,500	\$1,575
Stormwater Management	2014	15	\$498,500	\$159,840	\$658,340			\$33,000	\$19,980	\$33,000	\$18,648	\$33,000	\$17,316	\$33,000	\$15,984	\$33,000	\$14,652	\$33,000	\$13,320	\$33,000	\$11,988	\$33,000	\$10,656	\$33,000	\$9,324	\$33,000	\$7,992
Dump Truck	2014	7	\$139,000	\$11,120	\$150,120			\$19,857	\$2,780	\$19,857	\$2,383	\$19,857	\$1,986	\$19,857	\$1,589	\$19,857	\$1,191	\$19,857	\$794	\$19,857	\$397						
Coe Drive Sidewalk	2014	7	\$68,800	\$5,504	\$74,304			\$9,829	\$1,376	\$9,829	\$1,179	\$9,829	\$983	\$9,829	\$786	\$9,829	\$590	\$9,829	\$393	\$9,829	\$197						
Longmarsh Road Culvert	2014	10	\$153,000	\$25,245	\$178,245			\$15,300	\$4,590	\$15,300	\$4,131	\$15,300	\$3,672	\$15,300	\$3,213	\$15,300	\$2,754	\$15,300	\$2,295	\$15,300	\$1,836	\$15,300	\$1,377	\$15,300	\$918	\$15,300	\$459
Refuse Vehicle	2014	7	\$235,000	\$18,800	\$253,800			\$33,571	\$4,700	\$33,571	\$4,029	\$33,571	\$3,357	\$33,571	\$2,686	\$33,571	\$2,014	\$33,571	\$1,343	\$33,571	\$671						
Recycling Facility Repairs	2014	7	\$100,000	\$8,000	\$108,000			\$14,286	\$2,000	\$14,286	\$1,714	\$14,286	\$1,428	\$14,286	\$1,143	\$14,286	\$857	\$14,286	\$571	\$14,286	\$286						
Stormwater Management	2015	15	\$483,000	\$154,560	\$637,560					\$32,200	\$19,320	\$32,200	\$18,032	\$32,200	\$16,744	\$32,200	\$15,456	\$32,200	\$14,168	\$32,200	\$12,880	\$32,200	\$11,592	\$32,200	\$10,304	\$32,200	\$9,016
Dump Truck	2015	7	\$141,000	\$11,280	\$152,280					\$20,143	\$2,820	\$20,143	\$2,417	\$20,143	\$2,014	\$20,143	\$1,611	\$20,143	\$1,209	\$20,143	\$806	\$20,143	\$403				
Crommets Creek Bridge	2015	15	\$359,000	\$114,860	\$473,860					\$23,933	\$14,360	\$23,933	\$13,403	\$23,933	\$12,445	\$23,933	\$11,488	\$23,933	\$10,531	\$23,933	\$9,573	\$23,933	\$8,616	\$23,933	\$7,659	\$23,933	\$6,701
Recycling Collection Vehicle	2015	7	\$104,000	\$8,320	\$112,320					\$14,857	\$2,080	\$14,857	\$1,783	\$14,857	\$1,486	\$14,857	\$1,189	\$14,857	\$891	\$14,857	\$594	\$14,857	\$297				
Police Station Renovations	2016	20	\$900,000	\$378,000	\$1,278,000							\$45,000	\$36,000	\$45,000	\$34,200	\$45,000	\$32,400	\$45,000	\$30,600	\$45,000	\$28,800	\$45,000	\$27,000	\$45,000	\$25,200	\$45,000	\$23,400
Fire Station	2016	10	\$110,500	\$18,233	\$128,733							\$11,050	\$3,315	\$11,050	\$2,984	\$11,050	\$2,652	\$11,050	\$2,321	\$11,050	\$1,989	\$11,050	\$1,658	\$11,050	\$1,326	\$11,050	\$995
Stormwater Management	2016	15	\$483,000	\$154,560	\$637,560							\$32,200	\$19,320	\$32,200	\$18,032	\$32,200	\$16,744	\$32,200	\$15,456	\$32,200	\$14,168	\$32,200	\$12,880	\$32,200	\$11,592	\$32,200	\$10,304
Dump Truck	2016	7	\$143,000	\$11,440	\$154,440							\$20,428	\$2,860	\$20,428	\$2,451	\$20,428	\$2,043	\$20,428	\$1,634	\$20,428	\$1,226	\$20,428	\$917	\$20,428	\$409	\$20,428	\$109
1 Ton Dump Truck	2016	7	\$46,000	\$3,680	\$49,680							\$6,571	\$920	\$6,571	\$789	\$6,571	\$857	\$6,571	\$526	\$6,571	\$394	\$6,571	\$263	\$6,571	\$131	\$6,571	\$101
Fire Station	2017	20	\$7,671,400	\$3,221,888	\$10,893,288									\$383,570	\$306,856	\$383,570	\$291,513	\$383,570	\$276,170	\$383,570	\$280,828	\$383,570	\$245,485	\$383,570	\$230,142	\$383,570	\$214,799
Stormwater Management	2017	15	\$465,000	\$148,800	\$613,800							\$31,000	\$18,600	\$31,000	\$18,600	\$31,000	\$18,600	\$31,000	\$16,120	\$31,000	\$13,640	\$31,000	\$11,160	\$31,000	\$8,680	\$31,000	\$6,200
Engine 2	2018	10	\$850,000	\$107,250	\$757,250											\$85,000	\$19,500	\$85,000	\$17,550	\$85,000	\$15,600	\$85,000	\$13,650	\$85,000	\$11,700	\$85,000	\$9,750
Stormwater Management	2018	15	\$465,000	\$148,800	\$613,800											\$31,000	\$18,600	\$31,000	\$17,360	\$31,000	\$16,120	\$31,000	\$14,880	\$31,000	\$13,640	\$31,000	\$12,400
Stormwater Management	2019	15	\$440,000	\$140,800	\$580,800													\$29,333	\$17,600	\$29,333	\$16,427	\$29,333	\$15,253	\$29,333	\$14,080	\$29,333	\$12,907
Dump Truck	2019	7	\$149,000	\$11,920	\$160,920													\$21,286	\$2,980	\$21,286	\$2,554	\$21,286	\$2,128	\$21,286	\$1,703	\$21,286	\$1,277
Stormwater Management	2020	15	\$440,000	\$140,800	\$580,800															\$29,333	\$17,600	\$29,333	\$16,427	\$29,333	\$15,253	\$29,333	\$14,080
Sidewalk Snow Tractor	2020	7	\$125,000	\$10,000	\$135,000															\$17,857	\$2,500	\$17,857	\$2,143	\$17,857	\$1,786	\$17,857	\$1,429
Front End Loader	2020	7	\$254,000	\$20,320	\$274,320															\$36,286	\$5,080	\$36,286	\$4,354	\$36,286	\$3,629	\$36,286	\$2,903
Stormwater Management	2021	15	\$400,000	\$128,000	\$528,000															\$26,667	\$16,000	\$26,667	\$14,933	\$26,667	\$13,887	\$26,667	\$12,800
Roll-Off Truck Replacement	2021	7	\$226,000	\$18,080	\$244,080															\$32,286	\$4,520	\$32,286	\$3,874	\$32,286	\$3,229	\$32,286	\$2,583
EXISTING BONDS			\$18,322,410	\$6,043,278	\$24,365,688	\$0	\$0	\$429,243	\$148,998	\$514,476	\$172,219	\$624,728	\$218,397	\$1,034,296	\$522,815	\$1,105,296	\$654,241	\$1,135,915	\$505,195	\$1,248,344	\$510,682	\$1,170,801	\$467,550	\$1,135,801	\$426,195	\$1,088,801	\$385,538
2002 Bond			\$2,290,990	\$590,348	\$2,881,338			\$94,832	\$11,367	\$94,835	\$7,455	\$25,602	\$3,424	\$25,602	\$2,304	\$25,606	\$1,152										
2006 Bond	2003-2005	20	\$1,309,216	\$288,093	\$1,597,309	\$36,649	\$10,718	\$36,649	\$9,278	\$36,649	\$7,833	\$18,758	\$6,367	\$18,758	\$5,617	\$18,758	\$4,866	\$18,758	\$4,116	\$18,758	\$3,366	\$13,076	\$2,615	\$13,076	\$2,092	\$13,076	\$1,569
2006 Bond - Conservation Land	2006	20	\$1,620,000	\$673,635	\$2,293,635	\$81,000	\$41,938	\$81,000	\$38,788	\$81,000	\$35,840	\$81,000	\$32,400	\$81,000	\$29,160	\$81,000	\$25,920	\$81,000	\$22,680	\$81,000	\$19,440	\$81,000	\$16,200	\$81,000	\$12,960	\$81,000	\$9,720
2008 Bond	2005-2008	20	\$692,365	\$143,178	\$835,543	\$74,350	\$13,217	\$74,350	\$10,615	\$55,905	\$7,827	\$55,905	\$5,032	\$55,905	\$2,795												
2010 Bond	2008-2010	20	\$711,338	\$147,370	\$858,708	\$65,000	\$19,800	\$65,000	\$17,300	\$65,000	\$15,500	\$60,000	\$13,700	\$60,000	\$10,700	\$40,000	\$9,500	\$35,000	\$7,500	\$25,000	\$5,750	\$25,000	\$4,500	\$25,000	\$3,250	\$20,000	\$2,000
2012 Bond - Library	2011-2012	20	\$2,600,000	\$763,246	\$3,363,246	\$130,000	\$77,090	\$130,000	\$71,690	\$130,000	\$66,690	\$130,000	\$81,490	\$130,000	\$56,290	\$130,000	\$51,090	\$130,000	\$45,890	\$130,000	\$40,690	\$130,000	\$35,490	\$130,000	\$30,290	\$130,000	\$27,885
2012 Bond	2011-2012	7-15	\$1,960,000	\$421,017	\$2,381,017	\$185,000	\$65,693	\$185,000	\$58,293	\$185,000	\$50,893	\$180,000	\$43,493	\$180,000	\$36,293	\$130,000	\$28,093	\$135,000	\$21,893	\$135,000	\$16,493	\$135,000	\$11,093	\$135,000	\$5,693	\$135,000	\$4,675
2013 Bond	2012-2013	7-20	\$1,028,000	\$315,014	\$1,343,014	\$73,000	\$32,533	\$80,000	\$31																		

## APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Recreation</b>																				
Vehicle Purchase			1	20,000																
Wagon Hill Parking					1	26,500														
<b>RECREATION TOTALS</b>		-		20,000		26,500		-		-		-		-		-		-		-



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Recreation Vehicle Purchase	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Parks & Recreation	N/A	Mandated										
Division	Parks & Recreation		Council Goal		X								
Location	Parks & Recreation Building		Dept. Goal				X						

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Purchase of a Ford Escape or F150 (depending upon state bid availability) for no more than \$20,000. The vehicle will have a life expectancy of 10+ years.

#### RATIONALE: (Cost/Benefit Analysis)

The vehicle will be used daily as a means of transportation for the Parks & Recreation Director (i.e. between town properties and schools, transporting: tables, sound systems, fitness equipment, generators, maintenance items, etc.). The vehicle will not travel between work and home and will only be used during work hours. Currently, the Parks & Recreation Director uses a personal vehicle for the above listed. Mileage reimbursement for continuing use of personal vehicle (not including wear and tear) would be as follows: 15 mi./day @ 5days/week = 75mi./week @ 50weeks/yr. = 3,750mi./yr. @ \$.565 reimbursement/mi. = \$2,118.75/yr.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Routine maintenance costs for DPW.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.			20,000									20,000
<b>TOTAL</b>	0	0	20,000	0	0	0	0	0	0	0	0	20,000
<b>FUNDING:</b>												
Operating Rev.			20,000									20,000
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	20,000	0	0	0	0	0	0	0	0	20,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Wagon Hill Parking	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Recreation		Mandated										
Division	General Government		Council Goal			X							
Location	Wagon Hill - Route 4		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Installation of a 60' x 250' gravel parking lot at Wagon Hill. This parking lot would hold approximately 50 vehicles. One location being considered is the area between the barn and apple orchard. Parks and Recreation Committee is recommending this project.

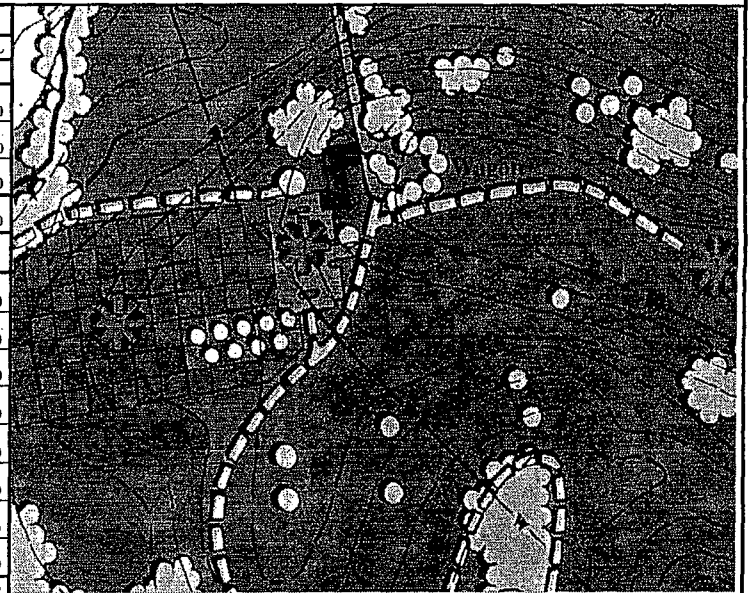
#### RATIONALE: (Cost/Benefit Analysis)

Both the 1995 Wagon Hill Farm Master & Management Plan and the Master Plan 2000 call for improvements to Wagon Hill Farm. In the past there have been calls for the possibility of establishing a resident and non-resident permit system for the use of Wagon Hill and we will need to make improvements to the facility and parking. The Recreation Chapter (Chapter 5) of the Master Plan 2000 speaks to these, and other, improvements to Wagon Hill. There has been work done already but more will be needed to provide for more recreational activity at Wagon Hill Farm. Wagon Hill Farm is a tremendous resource for the Town of Durham and beyond. It is also an underutilized resource.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Continued maintenance of the parking area, mostly in the winter with plowing, will be needed and would affect the Public Works Department Budget or possibly the Recreation Committee's budget. The use of fees (permit or user) could help offset these costs and potentially cover them.

FINANCIAL PLAN												
	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.				26,500								26,500
<b>TOTAL</b>	0	0	0	26,500	0	0	0	0	0	0	0	26,500
<b>FUNDING:</b>												
Operating Rev.				26,500								26,500
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	26,500	0	0	0	0	0	0	0	26,500



## APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Planning</b>																				
PM Traffic Model			1	46,600																
Technology Drive Infrastructure Improvement																			1	2,145,000
<b>PLANNING TOTALS</b>		-		46,600		-		-		-		-		-		-		-		2,145,000

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Traffic Model - PM Time												
Department Planning & Comm. Development	2000 Master Plan,	Mandated		X								
Division General Government	Transportation Chapter,	Council Goal										
Location Townwide	page 6.27 - Objectives 1-4	Dept. Goal X										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Preparation of p.m. peak traffic model. The total cost from the 2013 scope prepared by Resource Systems Group in 2012 was \$46,600. The prospective project would be contingent upon UNH funding half of this total.

#### RATIONALE: (Cost/Benefit Analysis)

Resource Systems Group is now preparing an updated a.m. peak traffic model. This would complete the traffic model.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Once the model is in place there should not be operating costs for the Town except if the Town wishes to run an analysis for itself. Generally, we would require developers of large projects to run a traffic model for their projects and to pay for it.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.			46,600									46,600
<b>TOTAL</b>	0	0	46,600	0	0	0	0	0	0	0	0	46,600
<b>FUNDING:</b>												
Operating Rev.			23,300									23,300
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH			23,300									23,300
Trade In												0
Other												0
<b>TOTAL</b>	0	0	46,600	0	0	0	0	0	0	0	0	46,600

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Technology Drive Infrastructure Improvements	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Planning and Community Development	Project in Chapter 8, p. 8.20 8.21 in 2000 Master Plan	Mandated										
Division	General Government		Council Goal										
Location	Technology Drive area		Dept. Goal										X

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Extension of 4,260 feet of roadway and sewer line in and around Technology Drive and Beech Hill Road to allow for further commercial development in the area. The water line already runs up Technology Drive to the Beech Hill water tank and we would not need to extend the water line at this time.

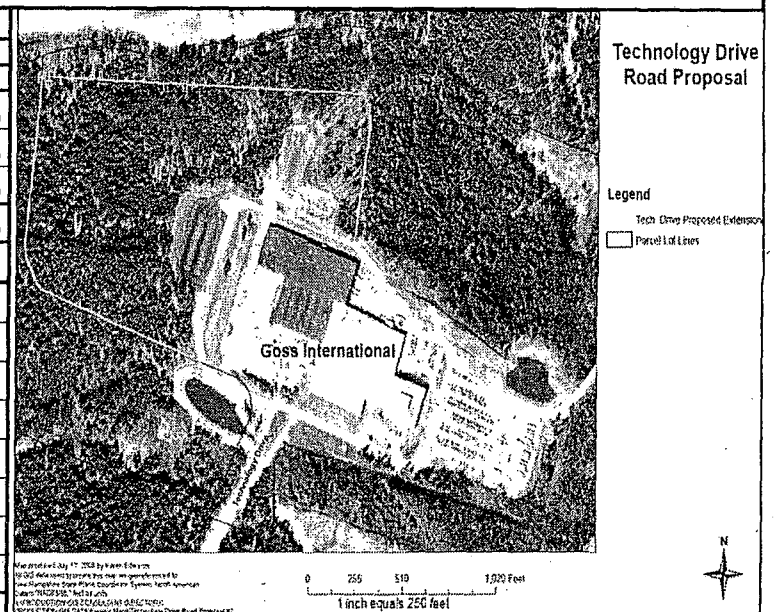
#### RATIONALE: (Cost/Benefit Analysis)

Extending municipal utilities to the area could help spur commercial development and help to stabilize taxes in Durham. The area is zoned high density and there is great potential for the area to be developed.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

If the Town were to construct the infrastructure extensions for the Technology Drive area, the Department of Public Works would incur maintenance costs as well as eventual repaving of the road. Any sewer or water extensions in the public right-of-way would be the responsibility of the Town

FINANCIAL PLAN												
	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design											162,000	162,000
Purch/Const.											1,983,000	1,983,000
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	0	2,145,000	2,145,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond											2,145,000	2,145,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	0	2,145,000	2,145,000



## APPROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Police Department</b>																				
Vehicle Replacement (Purchase 2/Yr)	1	62,000	1	62,000	1	93,000	1	62,000	1	62,000	1	93,000	1	64,000	1	64,000	1	96,000	1	64,000
Parking Meter Kiosks Purchases	2	150,000																		
Police Facility Upgrades					2	45,000			2	900,000										
<b>POLICE TOTALS</b>		212,000		62,000		138,000		62,000		962,000		93,000		64,000		64,000		96,000		64,000

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Vehicle Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Police		Mandated	X	X	X	X	X	X	X	X	X	X
Division	Enforcement		Council Goal										
Location	86 Dover Road		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Police Department management team recommends the purchase of two vehicles annually to meet our structured vehicle replacement plan of operating "on-line" patrol vehicles for three (3) years. During the recent economically challenging years when twelve (12) vehicles were scheduled to be purchased, only seven (7) were replaced resulting in cost overruns in vehicle maintenance due to the replacement of a number of expensive parts including transmissions. As of last year, we were able to purchase additional vehicles and are back on schedule to replace two of the "frontline" police vehicles annually so that the six marked units would be fully rotated every three years. The vehicles are then transferred to detectives, administration or to other Town departments where the type of use does not require such challenging 24/7 use with extensive idling time in between.

#### RATIONALE: (Cost/Benefit Analysis)

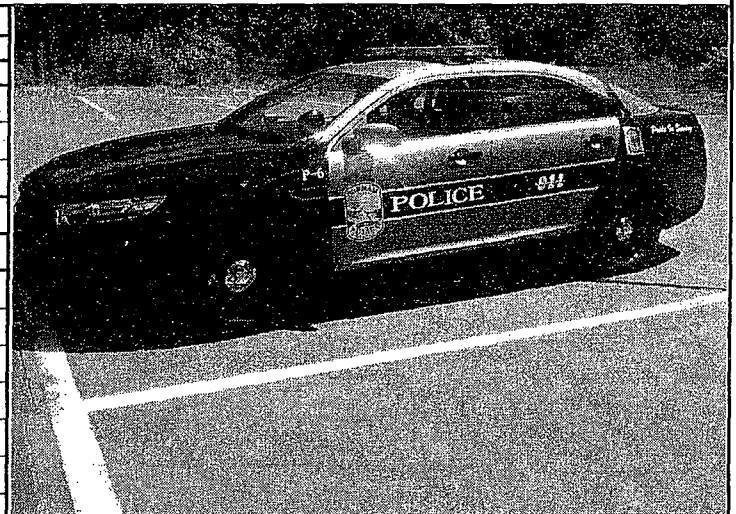
The department places six police cruisers in service patrolling and responding to calls for service throughout the neighborhoods of Durham. Police vehicles are driven under the most strenuous conditions almost 24 hours daily. Rarely are the engines turned off as they idle at accident scenes, traffic stops or directed patrols. Although they are built to be a "police interceptor", even the best of vehicles require repair especially under these strenuous conditions. Our ability to shift vehicles from the "front line" as marked vehicles to detectives, training transportation and to other Town departments has been very successful with many of our ex-police vehicles still being operated with excess of 150,000 miles. With an exceedingly lean and frugal budget, virtually the only area to cut without losing personnel is and has been cruisers. This shortfall has accentuated mechanical issues as three transmissions were replaced in 2012.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Purchasing the cruisers is only the beginning of the cost implications: The price of each cruiser @ \$31,000 contains the following cost implication - Ford Vehicle \$23,589; painting vehicle \$1,100; rear plastic seats \$650 (one time cost); Cage/barrier \$1,200; Equipment transferred and installed (lights, radio, computers, siren, etc.) \$2,145; painting old car solid color \$1,100; equipment transfer \$1,800 - for a total cost of \$31,000.

#### FINANCIAL PLAN

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.	62,000	62,000	62,000	62,000	93,000	62,000	62,000	93,000	64,000	64,000	96,000	782,000
<b>TOTAL</b>	<b>62,000</b>	<b>62,000</b>	<b>62,000</b>	<b>62,000</b>	<b>93,000</b>	<b>62,000</b>	<b>62,000</b>	<b>93,000</b>	<b>64,000</b>	<b>64,000</b>	<b>96,000</b>	<b>782,000</b>
<b>FUNDING:</b>												
Operating Rev.	62,000	62,000	62,000	62,000	93,000	62,000	62,000	93,000	64,000	64,000	96,000	782,000
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	<b>62,000</b>	<b>62,000</b>	<b>62,000</b>	<b>62,000</b>	<b>93,000</b>	<b>62,000</b>	<b>62,000</b>	<b>93,000</b>	<b>64,000</b>	<b>64,000</b>	<b>96,000</b>	<b>782,000</b>



MILEAGE AS OF 8/23/13

2010 Ford Crown Victoria	74,403	Marked	Patrol
2013 Ford Taurus	30,757	Marked	Patrol
2013 Ford Taurus	29,279	Marked	Patrol
2013 Ford Taurus	22,553	Marked	Patrol
2013 Ford Taurus	12,062	Marked	Patrol
2013 Ford Taurus	4,875	Marked	Patrol
2005 Ford Crown Victoria	143,140	Unmarked	Captain
2008 Ford Crown Victoria	133,839	Unmarked	Chief
2007 Ford Crown Victoria	129,146	Unmarked	Detective Unit
2008 Ford Crown Victoria	90,964	Unmarked	Deputy Chief
2009 Ford Crown Victoria	80,811	Unmarked	Detective Unit



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Parking Meter Kiosks												
Department	Police	Mandated										
Division	Parking	Council Goal X	X									
Location	Downtown Durham	Dept. Goal X										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Town-wide parking strategy for the downtown area has reached the 50% completed mark. The plan has been to gradually introduce the conversion to a kiosk "pay and display" concept. Success with these solar powered kiosks that accept coins and paper money as well as credit and debit cards as payment options has been achieved along Pettee Brook with new installations and replacement of antiquated mechanical meters on Main Street. This financial plan adds an additional ten (10) kiosks by replacing mechanical meters at the Pettee Brook lot, adding to the Tedeschi/Store 24 lot, Main Street and providing an alternative payment method at the Depot Road lot.

#### RATIONALE: (Cost/Benefit Analysis)

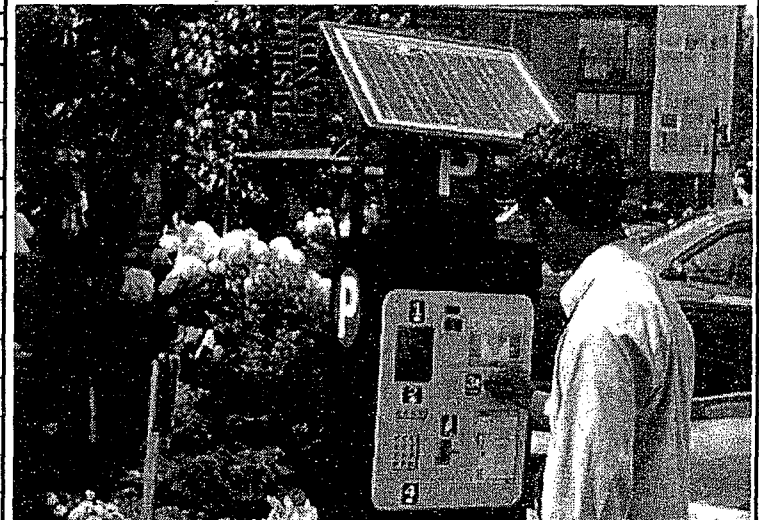
Now that the Town has experience with the solar power option and hard wire capabilities, larger batteries ensuring continuous power will be ordered. There has been significant success with the various payment options of credit and debit cards combined with coins and paper money. The user pays for the amount of time desired to park and is issued a receipt showing the date and expiration time and places the receipt on their vehicles' dashboard. The kiosk strategy will reduce sidewalk clutter while offering more options for payment.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

There will be yearly maintenance cost associated with the machines as well as Wi-Fi connectivity and credit card fees to enable the kiosk system to continue using the various payment options.

#### FINANCIAL PLAN

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.	108,000	100,000										208,000
<b>TOTAL</b>	<b>108,000</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>208,000</b>
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve	108,000											108,000
Bond		100,000										100,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	<b>108,000</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>208,000</b>



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Police Facility Needs Assessment	None	Mandated										
Department Police		Council Goal			X		X					
Division All		Dept. Goal										
Location 86 Dover Road												

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The current Police Facility at 86 Dover Road was purchased and renovated in 1996 and has served the agency well as police services are delivered to the Durham community. However as the building has aged and additional needs arise, space demands increase. For these reasons the police administration received funds in the 2013 budget to design a schematic expansion rendition of the building that will address the needs of the department for the next 20 + years. While still very functional, the building has some challenges in the area of record storage, evidence storage, equipment storage, as well as an extremely small female locker room. Working with the firm of Classic Building and Design, the husband and wife team completed interior and exterior drawings of the proposed facility. The next step is to develop a RFP for construction drawings from which can be ascertained specific costs and offer a "shovel ready" opportunity for the Town.

#### RATIONALE: (Cost/Benefit Analysis)

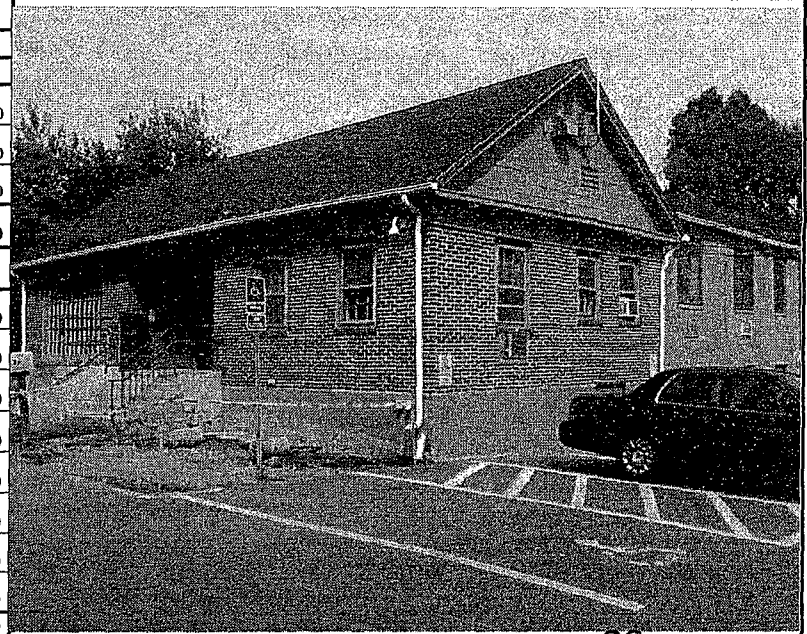
The police facility, comprised of 5,600 square feet, is adequate but will be greatly enhanced with several relatively minor adjustments and/or renovations. While final plans/proposals are not yet ready for presentation, the design team is suggesting an addition to the rear that would add storage space, car ports and greatly enlarged women's locker room. The addition would add 1,655 square feet of office space on the 2nd floor and another 1,655 on the ground floor with 828 square feet comprised of garage space. With these renovations/additions, the police facility could anticipate an additional 20 years of useful life that would serve the community and the police department well.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

This proposal requests \$45,000 for construction documents to be completed within FY 2016 for a two-story addition extending from the rear of the existing facility. These drawings will provide a more precise cost for completion of an expanded building that would consist of a total of 8,910 square feet.

#### FINANCIAL PLAN

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design				45,000								45,000
Purch/Const.						900,000						900,000
<b>TOTAL</b>	0	0	0	45,000	0	900,000	0	0	0	0	0	945,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve				45,000								45,000
Bond						900,000						900,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	45,000	0	900,000	0	0	0	0	0	945,000



# APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Fire Department</b>																				
Engine 1 Replacement	1	525,000																		
Water Rescue Vehicles Purchase	2	28,000																		
Thermal Imaging Camera Replacement	3	12,000			3	15,000											3	15,000		
Vehicle Air Bag Lifts Replacements	4	10,000																		
Deputy Chief's Vehicle Replacement (Explorer)			1	45,000																
Hurst Tool Replacement			2	50,000																
New Fire Station					1	110,500	1	7,671,400												
Confined Space Trailer Replacement					2	50,000														
Engine 2 Replacement									1	650,000										
Fire Prevention Vehicle Replacement (Explorer)									2	45,000										
Chief's Vehicle Replacement (Tahoe)									3	50,000										
Forestry Unit Replacement									4	70,000										
Medic 1 Replacement												1	100,000							
Radio Antenna Upgrades												2	250,000							
Defibrillator Replacement												3	40,000							
Washing Extractor/Dryer Purchase												4	15,000							
Asst. Chief Vehicle Replacement (Suburban)														1	70,000					
Utility Vehicle Replacement (Silverado)																1	55,000			
Portable Radio Upgrades																2	140,000			
Turnout Gear Replacement																4	110,000			
<b>FIRE TOTALS</b>		575,000		95,000		175,500		7,671,400		815,000				405,000		70,000		320,000		-

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Engine 1 Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department		Mandated	X									
Division	Fire Suppression		Council Goal										
Location	51 College Road		Dept. Goal 2014										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Purchase a New Heavy Duty custom fire pumper apparatus to replace the current Engine 1 which is a 2000 American LaFrance Eagle Pumper.

#### RATIONALE: (Cost/Benefit Analysis)

The Durham Fire Department has evaluated the condition of its current first due engine. We have determined that the 2000 American LaFrance engine is in vital need of replacement versus refurbishment. The current mileage for this engine is 73,693 miles. The cost of a refurbishment of said vehicle exceeds \$250,000.00, around 50% of the cost of a new vehicle. This vehicle has a high maintenance cost and high number of out of service hours as compared to the rest of the fleet. Having been out of service for over 170 hours this year alone, this vehicle has proven to be a burden on our maintenance department and budget. We have contacted Northeastern Fire Apparatus and the Northeast Emergency Apparatus Sales department only to find that dealers will not give us any trade in value beyond its value as scrap metal.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

We can expect to see maintenance costs for this unit drop significantly after the purchase.

#### FINANCIAL PLAN

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.		525,000										525,000
<b>TOTAL</b>	0	525,000	0	0	0	0	0	0	0	0	0	525,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond		262,500										262,500
Federal												0
State												0
UNH Bond		262,500										262,500
Trade In												0
Other												0
<b>TOTAL</b>	0	525,000	0	0	0	0	0	0	0	0	0	525,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Water Rescue Vehicles Purchases	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated	X									
Division	Fire Suppression		Council Goal										
Location	51 College Road		Dept. Goal 2014										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Durham Fire Department proposes the purchase of two (2) Water Rescue vehicles for the purpose of water related rescues and incident response.

#### RATIONALE: (Cost/Benefit Analysis)

The water rescue capabilities of the department are currently land based. This means an increase in hazards and risks created when firefighters have to swim from shore; there is also no back-up if something goes wrong. We currently have a small inflatable craft with limited use. In the past our Department has taken advantage of the Yamaha's loan program where they loaned the Town water crafts for the season. That program did not loan the trailers or safety equipment so the department was able to obtain donated funds where we purchased that equipment. The loan program ended in 2007 leaving us with the trailers and safety equipment but no appropriate water craft.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Minimal routine maintenance costs that are not covered by a warranty.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

#### FINANCIAL PLAN

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.		28,000										28,000
<b>TOTAL</b>	0	28,000	0	0	0	0	0	0	0	0	0	28,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve		28,000										28,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	28,000	0	0	0	0	0	0	0	0	0	28,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Thermal Imaging Camera	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated	X		X						X	
Division	Fire Suppression		Council Goal										
Location	Fire Department		Dept. Goal										
			14, 16 & 22										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Using infra-red technology, the thermal imaging camera is used to locate the seat of a fire as well as to locate victims in a hazardous environment where visibility is at a minimum or non-existent (due to smoke or products of combustion). It is extremely useful in locating burning light ballasts, overheated electrical equipment and appliances. It is used by the first-in crew to locate hidden fire and heat sources. It is a staple piece of equipment for our Rapid Intervention (downed firefighter rescue) Team. This device can be used to locate people in or on the water, and we have used it in searches for missing, lost, or injured persons in cold weather and at night. This camera will replace the current outdated model that is presently carried on Engine 1.

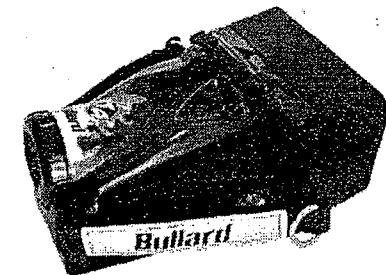
#### RATIONALE: (Cost/Benefit Analysis)

This is a vital tool for today's Fire Service and has become a standard piece of firefighter equipment with multiple applications that relate to firefighter safety. This particular camera is used by the captain while operating in groups within a hazard. This camera is larger than the individual ones purchased over the last couple of years and has more capabilities, such as a larger screen which allows for heat range scales, enabling us to locate hidden fires and overheated equipment. The smaller cameras are more for rescue situations.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.		12,000		15,000						15,000		42,000
<b>TOTAL</b>	0	12,000	0	15,000	0	0	0	0	0	15,000	0	42,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve		12,000		15,000						15,000		42,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	12,000	0	15,000	0	0	0	0	0	15,000	0	42,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Vehicle Air Bag Lifts	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department		Mandated	X									
Division	Fire Suppression		Council Goal										
Location	Fire Department		Dept. Goal 2014										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Purchase Air Bags to replace our current air bags purchased in 1996. Air bags are used for lifting vehicles off a person or can be used in farm machinery, industrial entrapment rescues and building collapse rescues. When these airbags are used firefighters are often required to work under the heavy loads they are holding.

#### RATIONALE: (Cost/Benefit Analysis)

Although these air bags are tested annually, they are subjected to large amounts of stress lifting objects up to 32 tons. These forces can create areas of fatigue that cannot be seen. The intention of this purchase is to begin replacing the air bags on a fixed lifetime of 15 years to maintain a high level of safety. 10 - 15 years is the manufacturer's recommendation. Our current airbags are 17 years old.

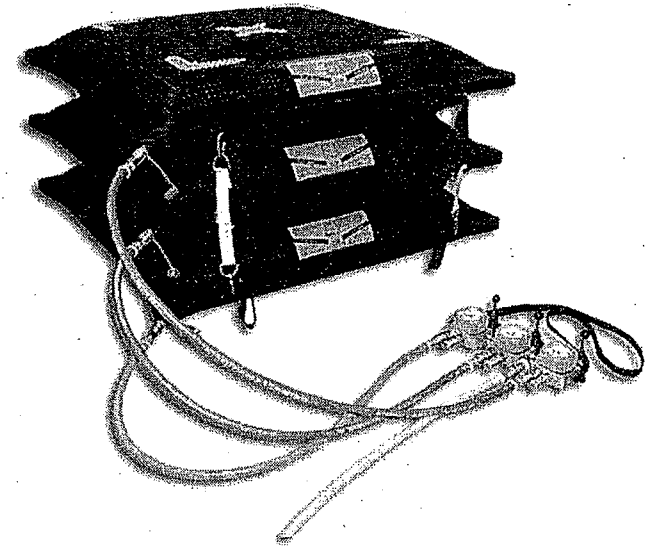
#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The impact of this purchase would come in the form of prevented failures, prevented injuries and those related costs.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

### FINANCIAL PLAN

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.		10,000										10,000
<b>TOTAL</b>	0	10,000	0	0	0	0	0	0	0	0	0	10,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve		10,000										10,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	10,000	0	0	0	0	0	0	0	0	0	10,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Deputy Chief Vehicle Replacement	N/A	Mandated		X								
Department Fire Department		Council Goal										
Division Fire Prevention		Dept. Goal										
Location Fire Department		2015										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

This Fire Prevention vehicle is assigned to the Deputy Fire Chief and is utilized for day to day fire prevention activities such as inspections, incident command and fire investigations. The vehicle should be replaced with a comparable vehicle purchased in 2007. As of August 25, 2013 the mileage on this vehicle was 82,186.

#### RATIONALE: (Cost/Benefit Analysis)

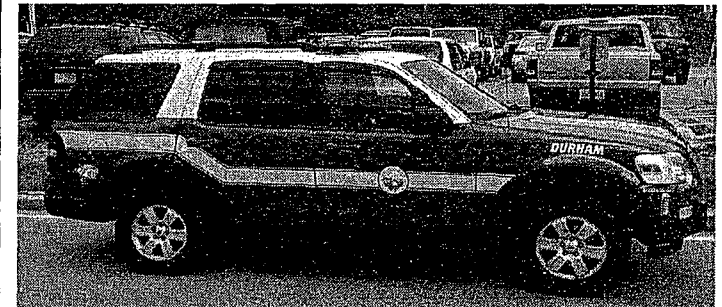
After 8 years of front line service these vehicles are not suitable for emergency operations and would be better suited to be reassigned to the town fleet of support vehicles. Repair costs and reliability as emergency vehicles make it necessary to replace this vehicle. This vehicle will be replaced with a like style vehicle, small to mid-size.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.			45,000									45,000
<b>TOTAL</b>	0	0	45,000	0	0	0	0	0	0	0	0	45,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve			45,000									45,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	45,000	0	0	0	0	0	0	0	0	45,000





# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Hurst Tool Replacement	N/A	Mandated		X								
Department		Council Goal										
Division		Dept. Goal										
Location		2015										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replace all components of the Hurst tool including a primary power unit, backup power unit, cutters, spreaders and hydraulic rams that are stored on Rescue 1.

#### RATIONALE: (Cost/Benefit Analysis)

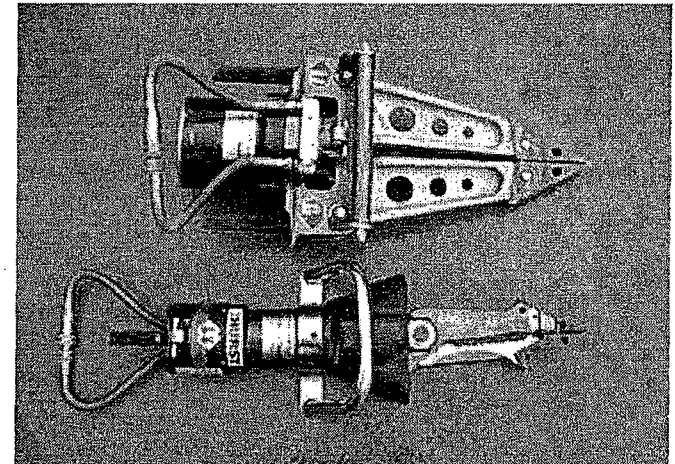
These tools are subjected to all kinds of forces as they cut, pry and push apart cars in order to extricate victims from motor vehicle accidents. Replacing our current tools would allow us the opportunity to switch to a lighter weight product using less man power and the ability to handle some of today's vehicles that are made with stronger metals. Of the current tools three (3) are over 25 years old - two 1985 rams and one spreader. Four (4) are over 10 years old - 2000 primary power unit, ram and 2 combi tools. One is nine (9) years old - 2004 back up power unit. The newest piece of equipment is six (6) years old - 2007 Cutter.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Some of the benefits that could come from this are reduced manpower and maintenance costs. If we wanted to save even more costs, we could potentially send a firefighter to training to reduce the annual testing costs.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.			50,000									50,000
<b>TOTAL</b>	0	0	50,000	0	0	0	0	0	0	0	0	50,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve			50,000									50,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	50,000	0	0	0	0	0	0	0	0	50,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	New Fire Station	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department		Mandated										
Division	Administration		Council Goal			X	X						
Location	Mill Road		Dept. Goal										
			2016-17										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

2013 expenses are being used for the architectural and engineering services for the construction of the new fire station for the Town of Durham, New Hampshire. This will bring the construction documents to 85% complete and to a "permit ready" stage. The building will be approximately 23,000 gross square feet, and will generally be configured as indicated on conceptual drawings by the architects. The project construction budget is approximately \$7.5M for building and site work.

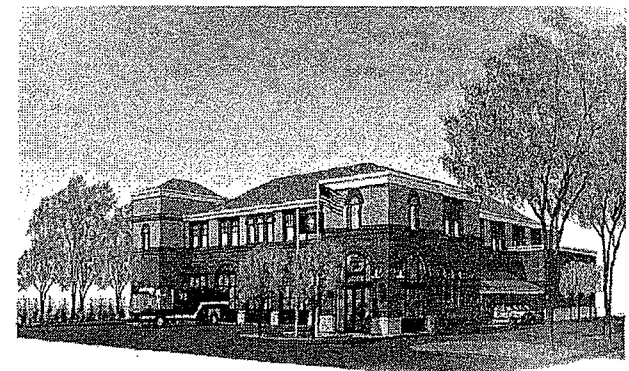
#### RATIONALE: (Cost/Benefit Analysis)

This is for the construction of the identified needed fire station that will serve the Town of Durham.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

### FINANCIAL PLAN

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design	30,000											0
Design	527,400			84,800								84,800
Const. Admin.				25,700	171,400							197,100
Purch/Const.					7,500,000							7,500,000
<b>TOTAL</b>	<b>557,400</b>	<b>0</b>	<b>0</b>	<b>110,500</b>	<b>7,671,400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,781,900</b>
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve	230,000											0
Bond	48,700			55,250	3,835,700							3,890,950
Federal												0
State												0
UNH	278,700			55,250	3,835,700							3,890,950
Trade In												0
Other												0
<b>TOTAL</b>	<b>557,400</b>	<b>0</b>	<b>0</b>	<b>110,500</b>	<b>7,671,400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,781,900</b>



ARCHITECTURAL RENDERING - MILL ROAD

DURHAM FIRE DEPARTMENT  
14 MARCH 2011

JANIS  
TOWN ENGINEER  
2011-10-17

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Confined Space Trailer	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated										
Division	Fire Suppression		Council Goal			X							
Location	Fire Department		Dept. Goal 2016										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The current trailer carries all of the department's specialized rescue gear for high angle and below grade rescues, trench rescue, woodland searches, etc. It contains tools, ropes, harnesses, tripods, shoring equipment, etc. The trailer can be towed behind the forestry or medic truck to a location as needed.

#### RATIONALE: (Cost/Benefit Analysis)

This item is crucial to us performing as a stand-by rescue team for confined space entries and allows flexibility with other emergencies. The interior of the vehicle has not been adequately upgraded since its original configuration. The exterior needs to be evaluated for possible improvements such as frame, axles, and body work.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Maintenance is a minimum and consists of standard preventive vehicle maintenance.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY 17	FY 18	FY 19	FY 20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.				50,000								50,000
<b>TOTAL</b>	0	0	0	50,000	0	0	0	0	0	0	0	50,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve				50,000								50,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	50,000	0	0	0	0	0	0	0	50,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Engine 2 Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department		Mandated										
Division	Fire Suppression		Council Goal					X					
Location	51 College Road		Dept. Goal 2018										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Purchase a New Heavy duty custom fire pumper apparatus to replace Engine 2, which is a 1990 Emergency One Pumper.

#### RATIONALE: (Cost/Benefit Analysis)

Replace Engine 2 with a heavy duty custom fire pumper. The new pumper would be rotated to the "First Due" status and the current "First Due" would be transferred to the "second-due" status to prolong its life. The current Engine 2 would then be downgraded to a reserve pumper to be used when either the first-due or second-due pumps are out of service or assigned to a large scale, prolonged emergency incident.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Although there will be an expected moderate impact on the maintenance budget, the cost savings will be realized in the long run.

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.						650,000						650,000
<b>TOTAL</b>	0	0	0	0	0	650,000	0	0	0	0	0	650,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond						325,000						325,000
Federal												0
State												0
UNH Bond						325,000						325,000
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	650,000	0	0	0	0	0	650,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Fire Prevention Vehicle Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated										
Division	Fire Prevention		Council Goal					X					
Location	Fire Department		Dept. Goal 2018										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Fire Prevention car is a 2007 Ford Explorer and is assigned to the Fire Inspector and is utilized for day to day fire prevention activities such as inspections, incident command and fire investigations. The vehicle should be replaced with a comparable vehicle. As of August 25, 2013 the mileage on this vehicle was 80,435.

#### RATIONALE: (Cost/Benefit Analysis)

After 10 years of front line service these vehicles need to be evaluated for their suitability for emergency operations and could be better suited to be reassigned to the town fleet of support vehicles. Repair costs and reliability as emergency vehicles make it necessary to replace this vehicle.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

FINANCIAL PLAN												
	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.						45,000						45,000
<b>TOTAL</b>	0	0	0	0	0	45,000	0	0	0	0	0	45,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve						45,000						45,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	45,000	0	0	0	0	0	45,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Chiefs Car Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department		Mandated										
Division	Fire Administration		Council Goal					X					
Location	Fire Department		Dept. Goal 2018										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Chief officer vehicle which is utilized for incident command. The vehicle should be replaced with comparable vehicle purchased in 2010.

#### RATIONALE: (Cost/Benefit Analysis)

After 8 years of front line service the vehicles are not suitable for emergency operations and would be better suited to be reassigned to the town fleet of support vehicles. Repair costs and reliability as emergency vehicles make it necessary to replace these vehicles.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY 17	FY 18	FY 19	FY 20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.						50,000						50,000
<b>TOTAL</b>	0	0	0	0	0	50,000	0	0	0	0	0	50,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve						50,000						50,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	50,000	0	0	0	0	0	50,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Forestry Unit Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated										
Division	Fire Maintenance		Council Goal					X					
Location	Fire Department		Dept. Goal 2018										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replace Forestry unit after 10 years of service, with a similar vehicle as the Ford F-350 pick up truck. The vehicle is equipped with a portable water tank and necessary components for brush fires.

#### RATIONALE: (Cost/Benefit Analysis)

The rural character of the area makes it necessary to have a reliable vehicle which can be taken off road in rough terrain to fight brush fires.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.						70,000						70,000
<b>TOTAL</b>	0	0	0	0	0	70,000	0	0	0	0	0	70,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve						70,000						70,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	70,000	0	0	0	0	0	70,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Medic 1 Replacement	N/A	Mandated										
Department Fire Department		Council Goal							X			
Division EMS		Dept. Goal										
Location Fire Department		2020										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

To replace the 2009 truck with a similar one-ton heavy duty pick up truck outfitted to be used as a medical response vehicle. Vehicle is equipped with emergency warning systems, two-way radio and medical equipment consistent with Emergency Medical Services.

#### RATIONALE: (Cost/Benefit Analysis)

This is the Fire Department's primary response vehicle used with advanced life support level of care. To insure reliability in emergency responses where advanced life support and life saving equipment is necessary it is necessary to replace this vehicle on a 10 year schedule.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.								100,000				100,000
<b>TOTAL</b>	0	0	0	0	0	0	0	100,000	0	0	0	100,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve								100,000				100,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	100,000	0	0	0	100,000





# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Radio Antenna Upgrades	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated										
Division	Fire Suppression		Council Goal							X			
Location	Fire Department		Dept. Goal 2020										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

In the year 2020 we will be in the 15 to 20 year range of our antenna stations and repeaters that serve the Fire Departments two-way communication system. This is the time range that a system needs to be analyzed and most likely upgraded. This number represents the best estimate that our technicians can provide that we would most likely need at that time.

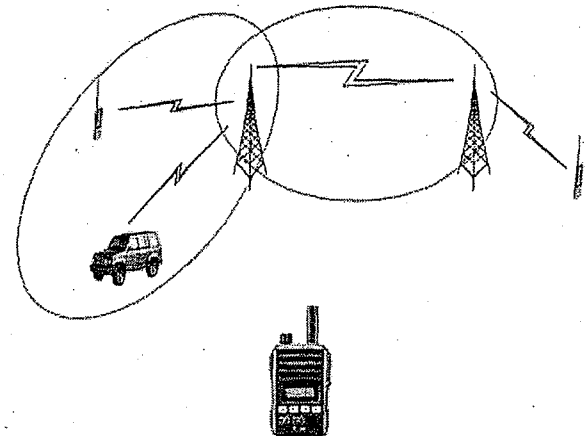
#### RATIONALE: (Cost/Benefit Analysis)

We must continually evaluate and upgrade our equipment as best as possible.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.								250,000				250,000
<b>TOTAL</b>	0	0	0	0	0	0	0	250,000	0	0	0	250,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve								250,000				250,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	250,000	0	0	0	250,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
LifePAK 15 Defibrillator Replacement	N/A	Mandated										
Department Fire Department		Council Goal							X			
Division Fire EMS		Dept. Goal										
Location 51 College Road		2020										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

This Unit will effectively replace a Philips MRX 12-lead Defibrillator that was purchased in 2010. This unit is now directly compatible with the AED's on the UNH campus, which have been switched to the Philips brand as well. This monitor can automatically transmit the 12-lead tracing to five separate locations through Blue-tooth technology, utilizing pre-purchased software that is currently managed on an dedicated DFD server. The color screen on the monitor provides for real-time viewing of all 12 leads, allowing for verification of all lead tracings. Additionally, the unit conducts a self-test of most operating electronics contained within, assuring that the machine is always ready to go, and quickly indicates any detected mechanical/electrical problem with the unit.

#### RATIONALE: (Cost/Benefit Analysis)

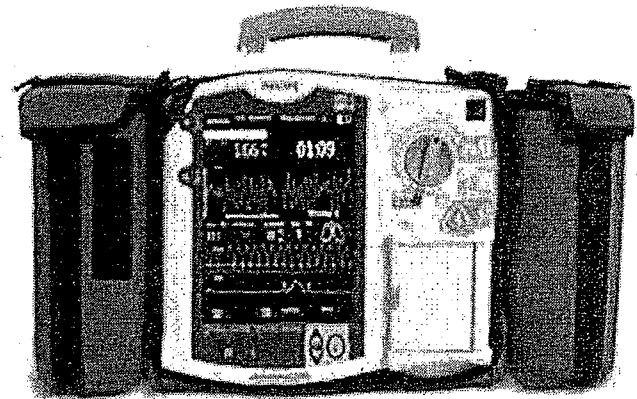
The Philips MRX 12-lead Defibrillator was purchased in 2010, replacing the outdated Lifepak 12 by Medtronic. DFD personnel have used this equipment extensively in the field and are impressed with its performance. This unit has eliminated the need for multiple spare batteries and a separate battery charger unit as well. In addition to a yearly maintenance fee, there is a discounted purchase plan in place for the associated disposable items.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

There may be a change in the yearly maintenance fee and/or disposable supplies.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.								40,000				40,000
<b>TOTAL</b>	0	0	0	0	0	0	0	40,000	0	0	0	40,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve								40,000				40,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	40,000	0	0	0	40,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Washing Extractor/Dryer	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated										
Division	Fire Supression		Council Goal							X			
Location	Fire Department		Dept. Goal	2020									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Purchase a Washing Machine Extractor and drying cabinet which will allow for less drying time. The drying cabinet offers dry times ranging from 1.5 hours to 3 hours. This will greatly reduce drying time and allow PPE (Turnout Gear) to be put back into service faster.

#### RATIONALE: (Cost/Benefit Analysis)

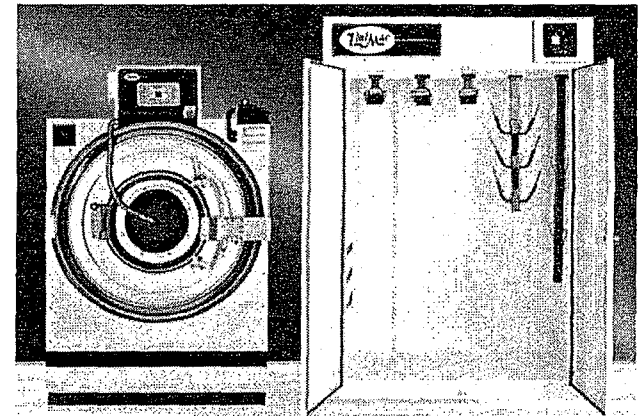
Currently we can wash up to 2 sets of gear but this takes 2 cycles. We are hoping to capitalize on a new extractor that will allow 1 cycle per set of gear. The Drying Cabinet makes sense because it will allow gear to dry more quickly. The age of the current machine is starting to show as more repairs and tune ups are needed.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

We should see the maintenance of this machine reduce for several years of use.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.								15,000				15,000
<b>TOTAL</b>	0	0	0	0	0	0	0	15,000	0	0	0	15,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve								15,000				15,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	15,000	0	0	0	15,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Asst. Chief Vehicle Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated										
Division	Fire Administration		Council Goal								X		
Location	Fire Department		Dept. Goal 2021										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replace the current Car 2 Command Vehicle purchased in 2013.

#### RATIONALE: (Cost/Benefit Analysis)

After 8 years of front line service the vehicles are not suitable for emergency operations and would be better suited to be reassigned to the town fleet of support vehicles. Repair costs and reliability as emergency vehicles make it necessary to replace these vehicles.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

#### FINANCIAL PLAN

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.								70,000				70,000
<b>TOTAL</b>	0	0	0	0	0	0	0	0	70,000	0	0	70,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve								70,000				70,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	70,000	0	0	70,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Utility 1 Vehicle Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated										
Division	Fire Supression		Council Goal									X	
Location	Fire Department		Dept. Goal 2020										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replace Utility 1 after 10 years of service, with a similar vehicle.

#### RATIONALE: (Cost/Benefit Analysis)

This Vehicle is equipped with a radio and emergency lighting.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.										55,000		55,000
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	55,000	0	55,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve										55,000		55,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	55,000	0	55,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Portable Radio Upgrades	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated										
Division	Fire Suppression		Council Goal									X	
Location	Fire Department		Dept. Goal 2022										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Start the replacement of 54 Digital Portable Radios.

#### RATIONALE: (Cost/Benefit Analysis)

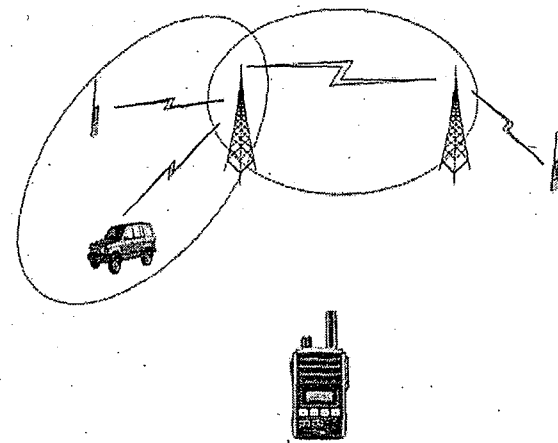
Portable radios are a vital piece of equipment and it is important each individual operating on an emergency scene have a reliable portable radio. In 2013 through a Homeland Security Grant the Town of Durham received 54 portable radios. After 10 years in service these radios will need to be upgraded to keep up with the technology and the industry standards.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Once radios are purchased the maintenance on radios will decrease as they will be under warranty for a few years after which a regular maintenance will be needed.

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.										140,000		140,000
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	140,000	0	140,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve										140,000		140,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	140,000	0	140,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Turnout Gear Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Fire Department	N/A	Mandated										
Division	Fire Suppression		Council Goal									X	
Location	51 College Road		Dept. Goal 2022										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Purchase turnout gear to begin replacing items purchased in 2012.

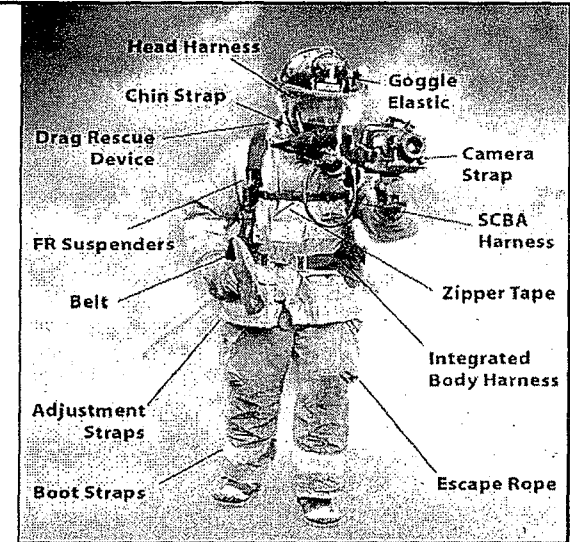
#### RATIONALE: (Cost/Benefit Analysis)

A set consists of: a protective coat, a pair of protective pants tailored for each individual, boots, helmet, hood, gloves, suspenders, flashlights, forestry shirts etc. In 2012, the department began with a clean slate of new turnout gear for all personnel and allowed us to have available the appropriate backup gear which is required under Union contract, as well as needed for daily use. Backup gear is used when primary gear has been in a hazardous environment and is being cleaned which takes two days for a set to clean and dry appropriately.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

\*\*Capital Reserve account is funded 50/50 by Town and UNH.

	PRIOR	FY14	FY15	FY16	FY 17	FY 18	FY 19	FY 20	FY21	FY22	FY23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.										110,000		110,000
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	110,000	0	110,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve										110,000		110,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	110,000	0	110,000



## APPROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Public Works - Engineering Division</b>																				
Stormwater Management System Improvements	1	499,500	1	483,000	1	483,000	1	465,000	1	465,000	1	440,000	1	440,000	1	400,000	1	350,000	1	350,000
Culvert & Outfalls Improvements Program	2	21,200	2	149,515	2	92,696	2	95,877	2	92,355	2	89,114	2	97,207						
Compact SUV Purchase	3	7,000																		
<b>PW - ENGINEERING TOTALS</b>		527,700		632,515		575,696		560,877		557,355		529,114		537,207		400,000		350,000		350,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Stormwater Management System CIP												
Department Public Works	Chapter 4 Section 4.7	Mandated X	X	X	X	X	X	X	X	X	X	X
Division Engineering		Council Goal										
Location Varies		Dept. Goal X										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Stormwater Management System Capital Improvement Plan was initiated in 2011 to prioritize stormwater infrastructure improvements, and in 2013 it was being expanded to include development and implementation of an Integrated Watershed Plan (IWP). The IWP is a shared effort with UNH to comply with overlapping Phase II MS4 Federal Stormwater Permit requirements and sustainably manage Durham's discharge of non-point source pollution entering the Great Bay. This work will be accomplished using partly in-house management and partly design/planning support from consultants and contractors and includes:

- Drainage system asset management and improvements to town infrastructure based on a prioritized list of deficiencies.
- Nutrient Load Model of the Oyster River Watershed to identify where to focus nonpoint source management practices
- An adaptive nonpoint source management program focused on public outreach/education, water quality monitoring, and nutrient (fertilizer) management.
- Installing bioretention structures (rain gardens and gravel wetlands) to improve stormwater treatment.

#### SEE ATTACHED

#### RATIONALE: (Cost/Benefit Analysis)

A Stormwater System CIP is an essential planning step for compliance with the EPA Phase II MS4 Stormwater regulations and is an essential component of the Durham/UNH Integrated Watershed Management Plan of the Oyster River Watershed. The effort combines a watershed approach to efficiently manage pollution from stormwater and nutrients from point sources (WWTP) and nonpoint sources (stormwater, fertilizer, etc.). The new draft MS4 permit mandates efficient asset management of all stormwater infrastructure and implementing a prioritized plan to correct deficiencies. This is a Kiazen style triple bottom line approach to economic-social-environmental sustainability.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The overall impact to the operating budget is expected to be slight since it is mostly a planning tool to sustainably balance federal permit compliance costs with operational and maintenance costs.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design	75,000	44,955	43,470	43,470	41,850	41,850	39,600	39,600	36,000	31,500	31,500	468,795
Design	95,000	79,920	77,280	77,280	74,400	74,400	70,400	70,400	64,000	56,000	56,000	795,080
Purch/Const.	350,000	374,625	362,250	362,250	348,750	348,750	330,000	330,000	300,000	262,500	262,500	1,263,875
<b>TOTAL</b>	<b>520,000</b>	<b>499,500</b>	<b>483,000</b>	<b>483,000</b>	<b>465,000</b>	<b>465,000</b>	<b>440,000</b>	<b>440,000</b>	<b>400,000</b>	<b>350,000</b>	<b>350,000</b>	<b>4,895,500</b>
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond	260,000	249,750	241,500	241,500	232,500	232,500	220,000	220,000	200,000	175,000	175,000	2,447,750
Federal												0
State												0
UNH Bond	260,000	249,750	241,500	241,500	232,500	232,500	220,000	220,000	200,000	175,000	175,000	2,447,750
Trade In												0
Other												0
<b>TOTAL</b>	<b>520,000</b>	<b>499,500</b>	<b>483,000</b>	<b>483,000</b>	<b>465,000</b>	<b>465,000</b>	<b>440,000</b>	<b>440,000</b>	<b>400,000</b>	<b>350,000</b>	<b>350,000</b>	<b>4,895,500</b>



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Culvert & Outfall Improvements	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 22
Department	Public Works	Chapter 4 Section 4.7	Mandated	X									
Division	Engineering		Council Goal	X	X	X	X	X	X	X			
Location	Varies		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Design and construct new culverts and nearby outfalls on several brooks/streams Town Wide. Continuation of undefined culvert and outfall repair/replacement projects are carried forward for the next 8 years. These projects are assumed to include some degree of stream bank restoration and possible off-site erosion control measures. This CIP item also includes components of the Town/UNH integrated watershed management plan for the Oyster River Water Shed.

#### RATIONALE: (Cost/Benefit Analysis)

The following culverts and outfalls have been identified as being in serious disrepair and/or undersized which have required numerous repeat maintenance efforts and cause impact to nearby habitat from erosion and sedimentation.

- Bagdad Road @ Littlehale Road
- Coe Drive @ Beards Creek
- Woodridge Road
- Oyster River Road (various locations)
- Mill Road @ Oyster River and College Brook
- Madbury Road @ Pettee Brook and Littlehale Creek
- Riverview Road
- Cedar Point Road
- Packers Falls Road @ Lamprey River
- Bennett Road @ Lamprey River
- Dame Road
- Mill Pond Road @ Pond

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The overall impact to the operating budget is assumed to be minimal since it will result in less repeat repairs and reduced unanticipated maintenance costs.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design	19,500		49,515	44,251	43,990	44,555	44,114	43,750				289,675
Purch/Const.		21,200	100,000	48,445	51,887	47,800	45,000	53,457				367,789
<b>TOTAL</b>	<b>19,500</b>	<b>21,200</b>	<b>149,515</b>	<b>92,696</b>	<b>95,877</b>	<b>92,355</b>	<b>89,114</b>	<b>97,207</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>657,464</b>
<b>FUNDING:</b>												
Operating Rev.	19,500	21,200	149,515	92,696	95,877	92,355	89,114	97,207				657,464
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	<b>19,500</b>	<b>21,200</b>	<b>149,515</b>	<b>92,696</b>	<b>95,877</b>	<b>92,355</b>	<b>89,114</b>	<b>97,207</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>657,464</b>



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Compact Vehicle	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works		Mandated	X									
Division	Engineering		Council Goal										
Location	DPW Facility		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Compact vehicle - \$13,500 originally approved in 2013 for small pickup. State bid no longer carries this vehicle. The lowest cost vehicle in 2014 in comparison will be an additional \$7,000.

#### RATIONALE: (Cost/Benefit Analysis)

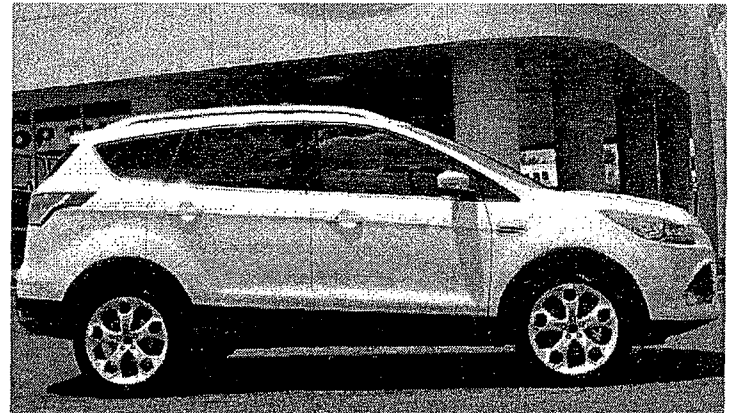
Town Engineers currently use an old police cruiser as the engineering vehicle. The Town will utilize the State Bid process to purchase this vehicle. This is typically \$4,000 less than a vehicle purchased from a dealership.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Minimal future maintenance.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.	13,500	7,000										20,500
<b>TOTAL</b>												20,500
<b>FUNDING:</b>												
Operating Rev.	13,500	7,000										20,500
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	13,500	7,000	0	0	0	0	0	0	0	0	0	20,500



# APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Public Works - Operations Division</b>																				
Road Resurfacing	1	283,431	1	377,839	1	425,647	1	339,560	1	371,151	1	552,409	1	290,043	1	326,672	1	427,034	1	409,630
Dump Truck Replacement	2	139,000	2	141,000	2	143,000			2		2	149,000							2	157,000
Coe Drive Sidewalk	3	68,800																		
Longmarsh Road Culvert Replacement	4	765,000																		
Sidewalk Improvements	5	51,800	5	39,015	3	34,200	2	16,222												
Downtown Parking Lot Paving	6	125,000																		
Crommets Creek Bridge Repair			3	359,000																
Main Street/College Road Traffic Signal Panel			4	30,000																
Solar Message Trailer and Panels					4	37,000														
Sidewalk Plow Tractor Replacement												2	125,000							
Front End Loader Replacement												3	254,000							
Backhoe Replacement (cost split w/Water & WW)												4	54,250							
Mobile Air Compressor												5	15,142							
Roadway Sweeper																2	154,300			
Aerial Bucket Truck																		3		54,000
<b>PW - OPERATIONS TOTALS</b>		1,433,031		946,854		639,847		355,782		371,151		701,409		738,435		326,672		581,334		620,630

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Road Resurfacing	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	Chapter 6 Section 6.40	Mandated										
Division	Operations		Council Goal	X	X	X	X	X	X	X	X	X	X
Location	Various		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

See attached 2014-2030 Pavement Plan. The 2014 Program will include Bayview Rd., Beards Landing, Briarwood Lane, Bunker Lane, Cutts Rd., Denbow Rd., Ffrost Drive, Littlehale Rd., Pettee Brook Lane, Stone Quarry Drive, Woodside Drive, and the new Town Hall Lot.

\*Town Administrator removed Pettee Brook Lane and Stone Quarry Drive.

#### RATIONALE: (Cost/Benefit Analysis)

Good roadway infrastructure is critical especially with New England weather. Good roads promote Town pride and economic stimulation. The Department of Public Works has a comprehensive sixteen year plan. This program is designed to provide treatment for every road in town every fourteen-sixteen years. Durham Public Works recommends the road program to be the highest priority project every year.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The program is designed to invest approximately \$400,000 per year. State block grant funds are estimated at \$255,000 annually for the next few years. The more investment in a solid resurfacing program, the less time spent on smaller maintenance items (i.e.. crack filling, pot hole patching) and personnel time to accomplish these tasks.

FINANCIAL PLAN													2014-PAVEMENT PLAN					
	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL	ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
<b>EXPENDITURES:</b>																		
Pre-Design												0						
Design												0						
Purch/Const.	331,407	283,431	377,839	425,647	339,560	371,151	552,409	290,043	326,672	427,034	409,630	4,134,823	BAYVIEW ROAD	1" OL	0.19	1010	1996	\$ 16,570.00
<b>TOTAL</b>	<b>331,407</b>	<b>283,431</b>	<b>377,839</b>	<b>425,647</b>	<b>339,560</b>	<b>371,151</b>	<b>552,409</b>	<b>290,043</b>	<b>326,672</b>	<b>427,034</b>	<b>409,630</b>	<b>4,134,823</b>	BEARDS LANDING	1" OL	0.14	739	1996	\$ 12,123.00
<b>FUNDING:</b>													BRIARWOOD LANE	1" OL	0.09	500	1989	\$ 7,577.00
Operating Rev.	331,407	283,431	377,839	425,647	339,560	371,151	552,409	290,043	326,672	427,034	409,630	4,134,823	BUNKER LANE	1" OL	0.06	316	1995	\$ 5,183.00
Capital Reserve													CUTTS ROAD	1" OL	0.50	2620	1995	\$ 51,583.00
Bond													DENBOW ROAD	1" OL	0.44	2303	1995	\$ 46,495.00
Federal													FFROST DRIVE	1" OL	0.81	4298	1995	\$ 84,620.00
State													LITTLEHALE ROAD	1" OL	0.28	1500	1993	\$ 29,532.00
UNH													PETTEE BROOK LANE	1" OL	0.20	1100	1991	\$ 23,747.00
Trade In													STONE QUARRY DRIVE	1" OL	0.29	1535	1996	\$ 32,526.00
Other													WOODSIDE DRIVE	1" OL	0.11	580	1987	\$ 12,548.00
<b>TOTAL</b>	<b>331,407</b>	<b>283,431</b>	<b>377,839</b>	<b>425,647</b>	<b>339,560</b>	<b>371,151</b>	<b>552,409</b>	<b>290,043</b>	<b>326,672</b>	<b>427,034</b>	<b>409,630</b>	<b>4,134,823</b>	TOWN HALL LOT					\$ 17,200.00
															3.11	<b>SUBTOTAL</b>		<b>\$ 339,704.00</b>

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Dump Trucks 35,000 GVW	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated	X	X	X			X				
Division	Operations		Council Goal										
Location	DPW Facility		Dept. Goal				X						X

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Purchase of a 35,000 LB GVW (Gross Vehicle Weight) dump truck with sand/salt spreader, side wing and front plow. In 2014 we will be replacing truck # 1, a 2001 International Dump Truck with 5,981 hours and 13 years of service. This truck was originally scheduled to be replaced in 2013 but was moved to 2014.

#### RATIONALE: (Cost/Benefit Analysis)

Public Works has six 35,000 LB GVW dump trucks that are placed on a 10-12 year replacement schedule. These dump trucks operate up to 8 hours per day 4- 5 days a week and comprise the front line snow removal equipment for all Town roads. The Town completes all of its snow removal operations in house with this equipment. Our future plans will be to replace truck #14, a 2002 Ford Sterling, in 2015; replace truck # 31, a 2003 Ford Sterling, in 2016; in 2019 we will replace #2 which is a 2007 Ford Sterling, and in 2023 we will replace the 2012 Peterbilt, which is truck #18.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

New Equipment= Less Breakdown and lesser repair costs. The Town has six (6) dump trucks and does all of its snow plowing in house. An industry study of municipal dump trucks revealed a twelve (12) year life expectancy for these vehicles. By having a scheduled replacement program, the operating budget will see relief in the form of : (1) Improvement of procedures regarding safety and policies (2) Reduced personnel time to make large repairs (3) More efficient and expanded services.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												
Design												
Purch/Const.	136,000	139,000	141,000	143,000			149,000				157,000	865,000
<b>TOTAL</b>	136,000	139,000	141,000	143,000	0	0	149,000	0	0	0	157,000	865,000
<b>FUNDING:</b>												
Operating Rev.												
Capital Reserve												
Bond	136,000	139,000	141,000	143,000			149,000				157,000	865,000
Federal												
State												
UNH												
Trade In												
Other												
<b>TOTAL</b>	136,000	139,000	141,000	143,000	0	0	149,000	0	0	0	157,000	865,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Coe Drive Sidewalk	<b>Chapter 3 Section 3.1</b>	Mandated	<b>X</b>									
Department Public Works		Council Goal										
Division Operation		Dept. Goal										
Location Coe Drive												

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replacement of the 3,695 foot long, 5 foot wide bituminous asphalt sidewalk and concrete curbing installed in 1977. This sidewalk links the Oyster River Middle School to the Oyster River High School.

#### RATIONALE: (Cost/Benefit Analysis)

The deteriorated, 30 + year old concrete curbed sidewalk along Coe Drive needs replacing. The existing curb and sidewalk will be replaced with Bituminous Asphalt and will include ADA compliant tip downs.

- New asphalt curbing @ \$11/foot X 3,695 Feet= \$40,645
- Crushed gravel/ loam & seed- \$9,360
- Pave sidewalk 120 tons @ \$110/Ton = \$13,200
- Handwork/ curb patch 40 ton @ \$140/ton = \$5,600
- Total = \$ 68,805

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact to other budgets, this will eliminate future maintenance costs for 25 years.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.		68,800										68,800
<b>TOTAL</b>	0	68,800	0	0	0	0	0	0	0	0	0	68,800
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond		68,800										68,800
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	68,800	0	0	0	0	0	0	0	0	0	68,800





# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Longmarsh Road Culvert	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated	X									
Division	Operations		Council Goal										
Location	Longmarsh Road		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Construction to eliminate flooding along Longmarsh Road near the Newmarket Road intersection. Potential construction options that might be acceptable once the preliminary engineering has been completed for the installation of either a 36 foot long bridge or five 60" concrete culverts on Longmarsh Road. This project will also raise the grade along 200 feet of Longmarsh Road by 12"- 15".

#### RATIONALE: (Cost/Benefit Analysis)

Currently there are two 48" culverts in this location. This area typically floods over Longmarsh Road at 6" of stormwater, resulting in the closure to one of only two entrances/exits to the Sunnyside Drive & Sandy Brook Drive neighborhoods. This closure increases traffic within the neighborhoods and congestion at the remaining entrance/exit. This project is part of the Laroche Brook and Hamel Brook Flood Mitigation Program.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

This project will eliminate hours of staff time when it is completed. DPW has applied for FEMA Mitigation Funding through the Department of Emergency Management . If accepted this program can contribute up to 75% reimbursement. **With the FEMA Mitigation Program the Town must finance and complete engineering plans for FEMA review before acceptance by FEMA.**

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design	51,000											51,000
Purch/Const.		765,000										765,000
<b>TOTAL</b>	<b>51,000</b>	<b>765,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>816,000</b>
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond	12,750	191,250										204,000
Federal	38,250	573,750										612,000
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	<b>51,000</b>	<b>765,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>816,000</b>





# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Sidewalk Improvements	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works		Mandated	X	X	X	X						
Division	Operations		Council Goal										
Location	Various Locations		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Ongoing sidewalk upgrades/rehabilitation on Bagdad Road (West) in 2014, Mill Pond Road in 2015, Madbury Road in 2016 and Main Street in 2017.

#### RATIONALE: (Cost/Benefit Analysis)

2014- Bagdad Road - 2250 LF asphalt, 810 LF new granite curb, 615 LF reset granite curb.

2015- Mill Pond Road- 660 LF asphalt, reset 66 LF of granite curb, 575 LF of 4" drainage.

2016- Madbury Road - 568 LF asphalt, 525 LF granite curb reset.

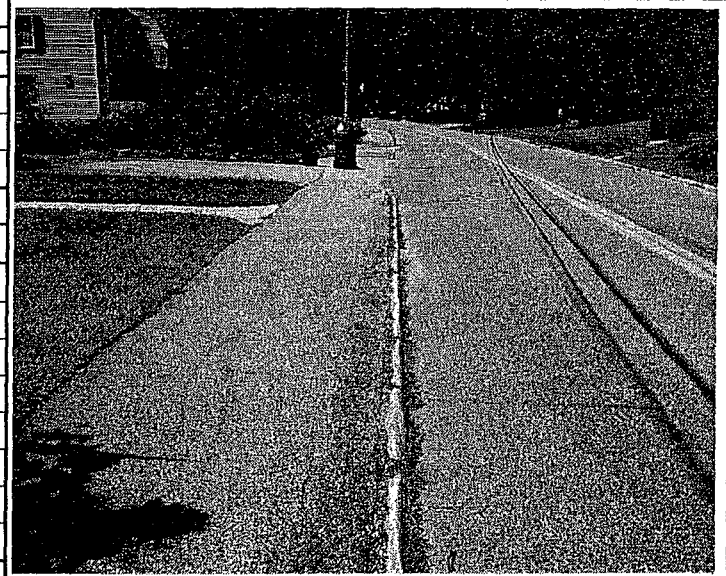
2017- Main Street - grinding of concrete sidewalks to eliminate trips and heaving, power washing sidewalk to remove gum/stains/dirt.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No Operating Impact

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.	102,260	51,800	39,015	34,200	16,222							243,497
<b>TOTAL</b>	<b>102,260</b>	<b>51,800</b>	<b>39,015</b>	<b>34,200</b>	<b>16,222</b>							<b>243,497</b>
<b>FUNDING:</b>												
Operating Rev.		51,800	39,015	34,200	16,222							141,237
Capital Reserve												0
Bond	102,260											102,260
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	<b>102,260</b>	<b>51,800</b>	<b>39,015</b>	<b>34,200</b>	<b>16,222</b>							<b>243,497</b>



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Downtown Parking Lot Paving	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated	X									
Division	Operations		Council Goal										
Location	Permit Parking Lot		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Asphalt shimming and wearing course applications at the Permit Parking and metered lot along Pettee Brook Lane. This scope of work will connect a walking path to the Golden Goose/Madbury Commons project. **\*\*The project will not move forward if the Durham development group moves forward with their project.\*\***

#### RATIONALE: (Cost/Benefit Analysis)

The existing pavement at these two parking lots is 20+ years old and showing severe signs of deterioration. This project will repair deteriorated portions of the lot by applying 1/2" shim, applying a 1" asphalt wearing course over the entire lot, and applying traffic control marking per MUTCD standards.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

This project will help Town staff members to more efficiently maintain these lots (plowing & sweeping).

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.		125,000										125,000
<b>TOTAL</b>	0	125,000	0	0	0	0	0	0	0	0	0	125,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Impact Fees		125,000										125,000
<b>TOTAL</b>	0	125,000	0	0	0	0	0	0	0	0	0	125,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Crommets Creek Bridge	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works		Mandated										
Division	Operations		Council Goal										
Location	Durham Point Road/ Bay Road		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

We will be making repairs to the Crommet's Creek Bridge, which will improve the safety of this structure and increase the load limit. Currently this bridge is on the NH DOT Red List of deficient bridges in New Hampshire.

#### RATIONALE: (Cost/Benefit Analysis)

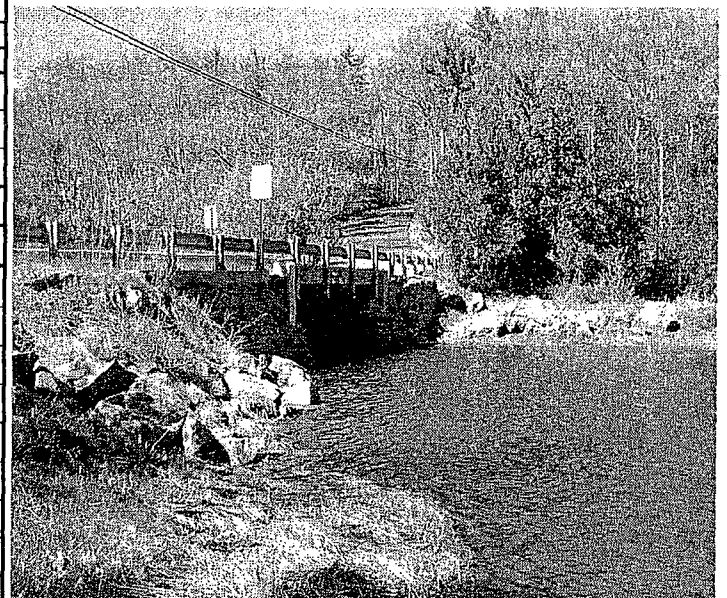
Crommet's Creek Bridge, located on Durham Point Road/Bay Road, is a narrow (21') single span structure with poor approach alignment in both directions. Because of its 15 ton posted load limit (on red list), age, and increasing usage, repair is recommended. The Department recommends a modified repair to strengthen the load limit. However, no realignment or reconfiguration of present bridge will be done. This might be eligible for 80% Federal/State funding via Bridge Aid Program. Construction estimate will likely change following preliminary engineering; additional funds may be required. Recommend maintaining the existing bridge "appearance" to fit in with the rural setting.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No operational impact.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design	49,000											49,000
Purch/Const.			359,000									359,000
<b>TOTAL</b>	<b>49,000</b>	<b>0</b>	<b>359,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>408,000</b>
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond	49,000		359,000									408,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	<b>49,000</b>	<b>0</b>	<b>359,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>408,000</b>



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Main St./College Rd. Traffic Signal	N/A	Mandated										
Department Public Works		Council Goal		X								
Division Operations		Dept. Goal										
Location Main St./College Rd.												

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replacement of deteriorating twenty one (21) year old control panel for the Main St./College Rd. traffic signals. Current panel does not meet electrical code.

#### RATIONALE: (Cost/Benefit Analysis)

The replacement of this equipment will be a significant upgrade and allow the DPW to set up multiple traffic control programs currently not available on the present control panel.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Service calls on present equipment average 3-4 per year

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.			30,000									30,000
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>
<b>FUNDING:</b>												
Operating Rev.			30,000									30,000
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Solar Message Trailer	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated										
Division	Operations		Council Goal			X							
Location	Various		Dept. Goal			X							

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

These solar message centers are portable, changeable message signs with LED matrix panels. They are powered by batteries that are recharged by top mounted solar panels. The Town consistently has the need to get information out to the public and these message boards will allow the Town great flexibility with updates and notifications regarding traffic control, construction, changes to traffic patterns, special events or other general Town information.

#### RATIONALE: (Cost/Benefit Analysis)

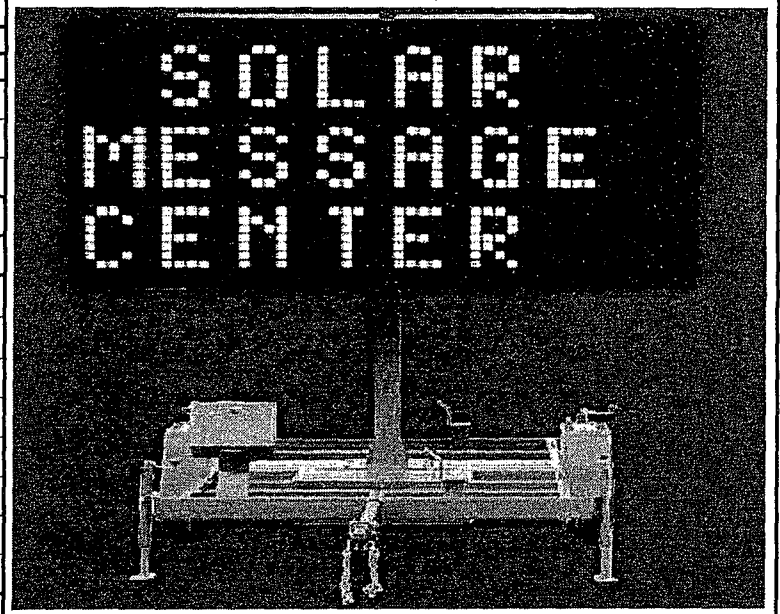
The Town would like to purchase 2 mini solar message centers with hydraulic pump, jack, radar detector and wheel immobilizer. Finding other grants and funding to cover this purchase has not been successful to date and at this point it is more fiscally prudent to purchase than keep renting. Each of these solar message centers costs \$18,069.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No operating impact, just a much clearer message.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												
Design												
Purch/Const.				37,000								37,000
<b>TOTAL</b>	0	0	0	37,000	0	0	0	0	0	0	0	37,000
<b>FUNDING:</b>												
Operating Rev.				37,000								37,000
Capital Reserve												
Bond												
Federal												
State												
UNH												
Trade In												
Other												
<b>TOTAL</b>	0	0	0	37,000	0	0	0	0	0	0	0	37,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Sidewalk Plow Tractor												
Department	Public Works	Mandated										
Division	Operations	Council Goal							X			
Location	Various	Dept. Goal				X						

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replacement of the current 2000 Trackless Sidewalk Snow tractor will be needed. The new breed of sidewalk tractors are all multi-functional 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.

#### RATIONALE: (Cost/Benefit Analysis)

This sidewalk tractor is on a 20 year replacement schedule. Durham has 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.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

This new tractor will require less maintenance time/dollars due to initial 3 year warranty.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												
Design												
Purch/Const.								125,000				125,000
<b>TOTAL</b>	0	0	0	0	0	0	0	125,000	0	0	0	125,000
<b>FUNDING:</b>												
Operating Rev.												
Capital Reserve												
Bond								125,000				125,000
Federal												
State												
UNH												
Trade In												
Other												
<b>TOTAL</b>	0	0	0	0	0	0	0	125,000	0	0	0	125,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Front End Loader	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated										
Division	Operations		Council Goal							X			
Location	Various		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Town's 1990 John Deere 544E front end loader will need to be replaced in 2020.

#### RATIONALE: (Cost/Benefit Analysis)

In 2020 the John Deere 544E front end loader will be 30 years old. Its reliability and repair parts will become a concern to DPW. This front end loader moves materials around and is responsible for stock piling and loading all of the Towns winter sanding operations.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

New equipment will be much more reliable and efficient.

FINANCIAL PLAN												
	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												
Design												
Purch/Const.								254,000				254,000
<b>TOTAL</b>	0	0	0	0	0	0	0	254,000	0	0	0	254,000
<b>FUNDING:</b>												
Operating Rev.												
Capital Reserve												
Bond								254,000				254,000
Federal												
State												
UNH												
Trade In												
Other												
<b>TOTAL</b>	0	0	0	0	0	0	0	254,000	0	0	0	254,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name		MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works												
Division	Operations, Water, WW									X			
Location	Various												

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replace the 2006 JCB 4 Wheel Drive Backhoe.

#### RATIONALE: (Cost/Benefit Analysis)

This piece of equipment is scheduled for replacement in 2020. The 2006 JCB is on a 12 year replacement schedule. The machine is an essential piece of equipment for all Public Works Divisions and programs and is used year round. FUNDING: 50% Operations (\$54,250), 25% Water (\$27,125), 25% Wastewater (\$27,125- of which is 33% funded by UNH) will fund this purchase.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Minimal impact for the first three years due to warranty.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.								108,500				108,500
<b>TOTAL</b>	0	0	0	0	0	0	0	108,500	0	0	0	108,500
<b>FUNDING:</b>												
Operating - Gen								54,250				54,250
Operating - Water								27,125				27,125
Operation - WW								9,042				9,042
Bond												0
State/Federal												0
UNH								18,083				18,083
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	108,500	0	0	0	108,500





# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Mobile Air Compressor	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated										
Division	Operations		Council Goal							X			
Location	DPW Facility		Dept. Goal				X						

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Current 2005 Air Compressor is scheduled for replacement in 2020.

#### RATIONALE: (Cost/Benefit Analysis)

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

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.								15,142				15,142
<b>TOTAL</b>	0	0	0	0	0	0	0	15,142	0	0	0	15,142
<b>FUNDING:</b>												
Operating Rev.								15,142				15,142
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	15,142	0	0	0	15,142



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Roadway Sweeper	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works		Mandated										
Division	Operations		Council Goal									X	
Location	DPW Facility		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replacement of 2012 Elgin Roadway Sweeper.

#### RATIONALE: (Cost/Benefit Analysis)

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.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Broom replacement will run \$600/year.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.										154,300		154,300
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	154,300	0	154,300
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond										154,300		154,300
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	154,300	0	154,300



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Aerial Bucket Truck												
Department	Operations	Mandated										
Division	Operations	Council Goal										
Location	DPW Facility	Dept. Goal										X

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

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

#### RATIONALE: (Cost/Benefit Analysis)

This vehicle is utilized for traffic control devices, repairs and installation, and any projects which require a height above twelve (12) feet.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The budget impact for this vehicle is a annual state inspection (\$300) for the lift mechanism.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.											54,000	54,000
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	0	54,000	54,000
<b>FUNDING:</b>												
Operating Rev.											54,000	54,000
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	0	54,000	54,000



## APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Public Works- Buildings &amp; Grounds Division</b>																				
One-Half Ton Pickup Truck Replacement			1	16,200																
Holiday Decorations			2	16,717																
One Ton Dump Truck Replacemeht					1	46,000														
Old Landing Park Improvements							1	86,474												
3/4 Ton Pickup Replacement																	1	26,000		
<b>PW - BLDGS &amp; GRDS TOTALS</b>				32,917		46,000		86,474										26,000		

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	1/2 Ton Pick-up	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated		X								
Division	Building & Grounds		Council Goal										
Location	DPW Facility		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Town would like to replace the current Buildings & Grounds Division 2005 1/2 Ton Pick-up Truck. This truck is used daily by Buildings & Grounds employees for moving staff and equipment from site to site. The truck fleet is currently on a 10 -12 year replacement program.

#### RATIONALE: (Cost/Benefit Analysis)

This 1/2 Ton 2005 Ford Ranger Pick-up supports the Building & Grounds Division employee who completes the daily trash/debris pick-up at all parks and downtown areas (2 hours daily). The vehicle is also used by the same employee for maintenance of all Town owned properties (graveyards, cemeteries, etc.) and the landscaping of the downtown area and buildings. This vehicle, as most are, will be purchased through the state bid process.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact to other department's budgets. Routine maintenance costs per year. DPW has previously downsized this vehicle in 2005 to obtain better gas mileage.

FINANCIAL PLAN												
	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.			16,200									16,200
<b>TOTAL</b>	0	0	16,200	0	0	0	0	0	0	0	0	16,200
<b>FUNDING:</b>												
Operating Rev.			16,200									16,200
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												500
Other												0
<b>TOTAL</b>	0	0	16,200	0	0	0	0	0	0	0	0	16,200



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Holiday Decorations	N/A	Mandated										
Department Public Works		Council Goal		X								
Division Building & Grounds		Dept. Goal										
Location Downtown Area												

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replacement of 29 existing 12 year old holiday wreaths, currently hung on the Town owned decorative street lights along Main Street. This CIP project requests an additional purchase of 44 new holiday wreaths for placement on Jenkins Court, Madbury Road and Pettee Brook Lane.

#### RATIONALE: (Cost/Benefit Analysis)

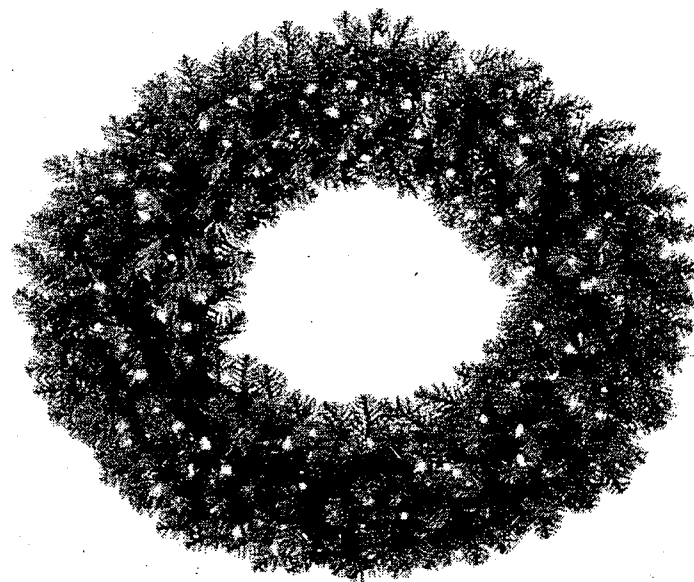
These new holiday decorations will include LED technology which will negate any new energy cost from the 44 additional decorations. These holiday wreaths will light up the complete downtown loop.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No Operating Impact

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.			16,717									16,717
<b>TOTAL</b>	0	0	16,717	0	0	0	0	0	0	0	0	16,717
<b>FUNDING:</b>												
Operating Rev.			16,717									16,717
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	16,717	0	0	0	0	0	0	0	0	16,717



**TOWN OF DURHAM, NEW HAMPSHIRE**  
**2014 - 2023 CIP Project Description**

Project Name	1 Ton Dump Truck Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated										
Division	Building & Grounds		Council Goal			X							
Location	Public Works Facility		Dept. Goal				X						

**PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT**

**DESCRIPTION:**

We will be replacing the current 2006 Ford 1-ton, Four Wheel Drive Dump Truck with a 2016 1-ton equipped with plowing and sand/salt spreading capabilities.

**RATIONALE: (Cost/Benefit Analysis)**

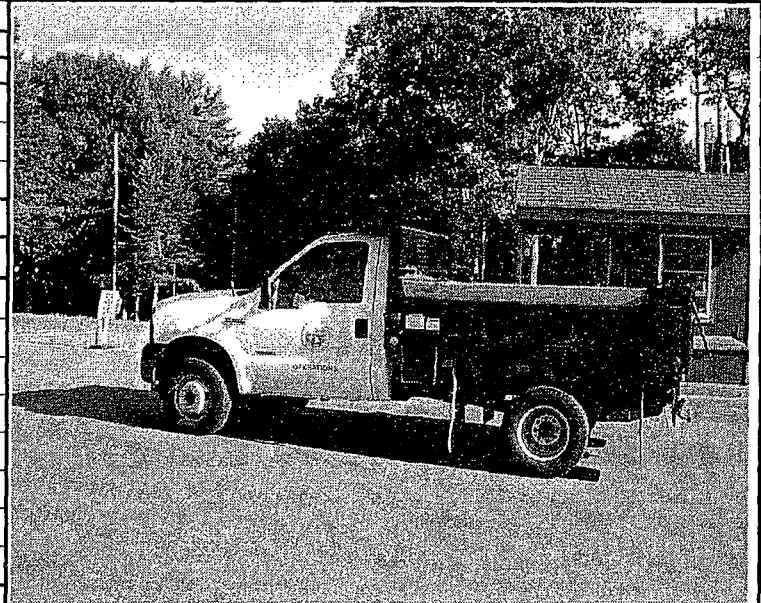
This vehicle will replace a 2006 Ford 1-ton Dump Truck and will be outfitted with a plow and sand/salt spreader. This truck is integral to daily operations and is the front-line piece of equipment for parks, cemeteries, buildings and grounds, and snow removal at all town facilities.

This vehicle is the sole vehicle used during winter storms at such sites as the Police Station, Town Hall, Lee Well, Wagon Hill Farm, Transfer Station and various parking lots.

**OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)**

Optimum trade-in time is 10 years.

FINANCIAL PLAN												
	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.				46,000								46,000
<b>TOTAL</b>	0	0	0	46,000	0	0	0	0	0	0	0	46,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond				46,000								46,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	46,000	0	0	0	0	0	0	0	46,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Old Landing Park Improvements	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works		Mandated										
Division	Parks/Grounds		Council Goal				X						
Location	Old Landing Road		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

We will be making improvements to the Old Landing Park, including repairing the dilapidated stone wall along the Oyster River, installing a new aluminum dock, rope railings, possibly razing the old brick pump house and creating a larger lawn area.

#### RATIONALE: (Cost/Benefit Analysis)

The stone wall along the Oyster River bordering Old Landing Park has deteriorated and collapsed in a couple of areas. Completing these repairs increases safety and makes the park more usable by residents.

-Stone wall repair - \$38,500.

-Additional improvements include replacing the current wooden dock with an aluminum dock - \$22,043

-Replacing the railing along the shoreline/parking area - \$3,029

-Demolition of the pump house - \$12,000

-Rehabilitation of lawn area - \$10,902

#### OPERATING BUDGET IMPACT:

No impact on operating budget.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.					86,474							86,474
<b>TOTAL</b>	0	0	0	0	86,474	0	0	0	0	0	0	86,474
<b>FUNDING:</b>												
Operating Rev.					86,474							86,474
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	86,474	0	0	0	0	0	0	86,474





# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	3/4 Ton Pick-up	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated										
Division	Building & Grounds		Council Goal									X	
Location	DPW Facility		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replace Buildings & Grounds Foreman's 2012 Chevrolet 3/4 Ton Pick-up truck. The truck fleet is currently on a 10-12 year replacement program, this vehicle was replaced in 2012.

#### RATIONALE: (Cost/Benefit Analysis)

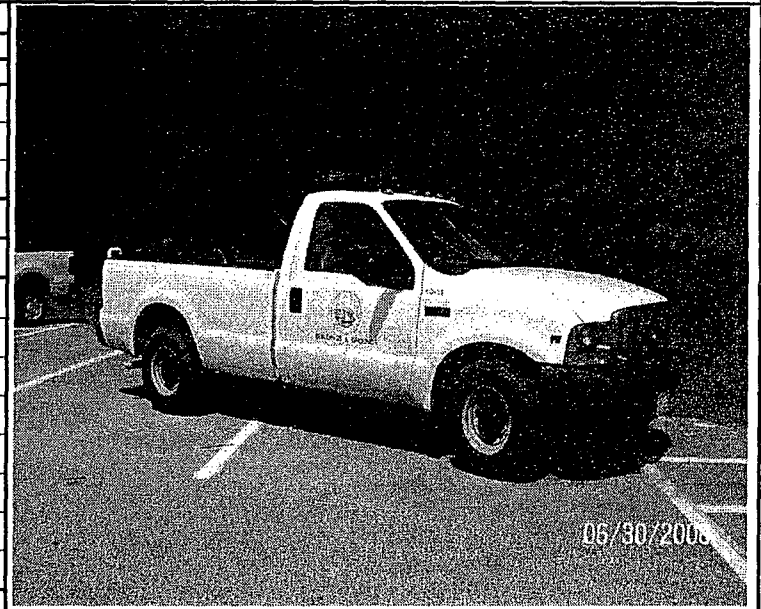
This vehicle is used by the Building & Grounds Foreman for daily transportation in his job of maintaining/ supervising each of the Town facilities and parcels of land. The Foreman is also the person in charge of all supplies, safety training, water equipment and the Town's carpenter and stone mason.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact to other Departments, routine maintenance costs per year.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.										26,000		26,000
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	26,000	0	26,000
<b>FUNDING:</b>												
Operating Rev.										26,000		26,000
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	26,000	0	0



## APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Public Works - Sanitation Division</b>																				
Refuse Collection Vehicle Replacement	1	235,000																		
Recycling Facility Repairs	2	100,000																		
Recycling Collection Vehicle Replacement			1	104,000																
Roll-off Truck															1	226,000				
Skid Steer																		1		45,000
<b>PW - SANITATION TOTALS</b>		335,000		104,000		-		-		-		-		-		226,000		-		45,000

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014- 2023 CIP Project Description

Project Name	Refuse Collection Vehicle	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated	X									
Division	Sanitation		Council Goal										
Location	Transfer Station/Recycling Center		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The DPW will replace the 1997 Crane Carrier Vehicle with a new side load curbside collection vehicle. The DPW has invested over \$50,000 in repairs to the existing 2005 International vehicle over the past 6 years. The 2005 International will now become the backup vehicle.

#### RATIONALE: (Cost/Benefit Analysis)

This vehicle currently runs 40+ hours per week with approximately 2200 stops per week. The continuous wear and tear takes its toll on the current vehicle.

The DPW this year bid out both curbside trash and recycling collection to verify that the DPW is competitive in regards to this scope of work. The results indicated that the marginal savings of \$10,000 to \$12,000 did not justify a change to privatization of this function which may have resulted in the lay off of several current DPW employees.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Normal maintenance such as tires, brakes, batteries, motor oil, hydraulic oil will impact the operating budget by approximately \$2,000-\$3,000 per year.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.		235,000										235,000
<b>TOTAL</b>	0	235,000	0	0	0	0	0	0	0	0	0	235,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond		235,000										235,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	235,000	0	0	0	0	0	0	0	0	0	235,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Recycling Facility Repairs	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works		Mandated	X									
Division	Sanitation		Council Goal										
Location	100 Durham Point Road		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The current building at the Raymond A. LaRoche Sr. Transfer Station is in need of serious repair.

#### RATIONALE: (Cost/Benefit Analysis)

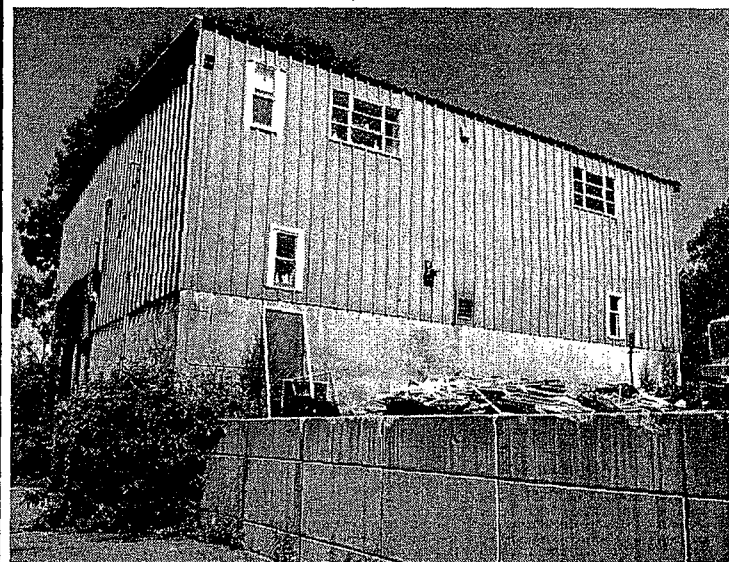
This project would include removal of all siding, trim, windows, doors, roofing, and insulation from the building frame and installing all new material. It will also demolish and build new interior offices and finished areas.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No operating impact

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												
Design												
Purch/Const.		100,000										100,000
<b>TOTAL</b>		100,000										100,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond		100,000										100,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>		100,000										100,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Recycling Collection Vehicle	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated										
Division	Sanitation		Council Goal		X								
Location	Transfer Station/Recycling Center		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Town would like to replace the current 2005 curbside recycling collection vehicle with a new, more efficient vehicle in 2015. This vehicle is on a 10 year replacement schedule.

#### RATIONALE: (Cost/Benefit Analysis)

This Recycling Collection Vehicle will replace the 2005 International/Kahn recycling collection vehicle. This vehicle runs 50+ hours per week and makes approx. 2,200 stops per week. The continuous wear and tear takes a toll on the vehicle. This is the only recycling vehicle the Town owns.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Normal maintenance items such as filters, tires, brakes, lights, and motor oil will add approximately \$4,250 to operating budget each year for the next 5 years.

FINANCIAL PLAN												
	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.			104,000									104,000
<b>TOTAL</b>	0	0	104,000	0	0	0	0	0	0	0	0	104,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond			104,000									104,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	104,000	0	0	0	0	0	0	0	0	104,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Roll-off Truck	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public works	N/A	Mandated										
Division	Sanitation		Council Goal								X		
Location	Transfer Station/Recycling Center		Dept. Goal				X						

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

2006 International Roll-off truck is scheduled for replacement in 2021.

#### RATIONALE: (Cost/Benefit Analysis)

This vehicle transfers 30 and 40 cubic yard roll-off containers from the Transfer Station to the appropriate recycling markets.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Future maintenance costs consist mainly of tires and the hydraulic system.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.									226,000			226,000
<b>TOTAL</b>	0	0	0	0	0	0	0	0	226,000	0	0	226,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond									226,000			226,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	226,000	0	0	226,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Skid Steer	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works		Mandated										
Division	Sanitation		Council Goal										
Location	Transfer Station/Recycling Center		Dept. Goal	X									X

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The 2008 John Deere Skid Steer is scheduled for replacement in 2023. The skid steer (also called a Bobcat) is utilized in the handling of all recyclables at the Transfer and Recycling Center.

#### RATIONALE: (Cost/Benefit Analysis)

This equipment is the most productive way to load/package recyclables into and removal from the bailer. The bailer compacts recyclables for transporting to market.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Tires, tune-ups and fuel are normal costs for this type of equipment.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.											45,000	45,000
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	0	45,000	45,000
<b>FUNDING:</b>												
Operating Rev.											45,000	45,000
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	0	45,000	45,000



# Water Fund Proposed Bond Schedule

PROJECT NAME	PROJECT YEAR	BOND LENGTH	TOTAL AMOUNT BONDED/ LEASED	ESTIMATED INTEREST COSTS	TOTAL ESTIMATED COST	2013 PRINCIPAL	2013 INTEREST	2014 PRINCIPAL	2014 INTEREST	2015 PRINCIPAL	2015 INTEREST	2016 PRINCIPAL	2016 INTEREST	2017 PRINCIPAL	2017 INTEREST	2018 PRINCIPAL	2018 INTEREST	2019 PRINCIPAL	2019 INTEREST	2020 PRINCIPAL	2020 INTEREST	2021 PRINCIPAL	2021 INTEREST	2022 PRINCIPAL	2022 INTEREST	2023 PRINCIPAL	-2023 INTEREST
Water Tank Reconditioning	2013	20	\$750,000	\$157,189	\$907,189					\$40,000	\$34,266	\$40,000	\$30,175	\$40,000	\$28,475	\$40,000	\$26,775	\$40,000	\$25,075	\$40,000	\$23,775	\$40,000	\$21,675	\$40,000	\$19,975	\$40,000	\$18,275
Spruce Hole Well	2013/2014	20	\$560,000	\$107,870	\$667,870					\$60,000	\$21,070	\$60,000	\$17,500	\$55,000	\$15,400	\$55,000	\$13,475	\$55,000	\$11,550	\$55,000	\$9,625	\$55,000	\$7,700	\$55,000	\$5,775	\$55,000	\$3,850
Wiswall Dam Spillway	2014	5	\$70,000	\$6,671	\$76,671					\$15,000	\$2,446	\$15,000	\$1,788	\$15,000	\$1,300	\$15,000	\$812	\$10,000	\$325								
Wiswall Dam Spillway	2015	10	\$465,000	\$88,896	\$553,896							\$50,000	\$17,498	\$50,000	\$14,525	\$50,000	\$12,775	\$45,000	\$11,025	\$45,000	\$9,500	\$45,000	\$7,875	\$45,000	\$6,300	\$45,000	\$4,725
OUTSTANDING BONDS/LEASES/SRF LOANS																											
Lamprey River Transmission Main	2002	15	\$828,554	\$238,224	\$1,066,778	\$62,635	\$9,164	\$64,810	\$6,889	\$67,060	\$4,739	\$69,389	\$2,410														
Outstanding Bonds thru 2002		20	\$838,394	\$199,816	\$838,210	\$34,699	\$8,692	\$34,699	\$7,274	\$32,740	\$5,866	\$32,740	\$4,536	\$23,509	\$3,144	\$23,509	\$2,116	\$23,508	\$1,058								
2006 Bond	2003-2006	20	\$545,469	\$216,362	\$761,831	\$26,026	\$14,241	\$27,291	\$13,240	\$27,291	\$12,175	\$27,291	\$11,112	\$24,841	\$10,020	\$24,841	\$9,027	\$24,841	\$8,033	\$24,841	\$7,039	\$24,841	\$6,045	\$25,262	\$5,053	\$25,262	\$4,042
2008 Bond	2007-2008	20	\$724,900	\$278,364	\$1,003,264	\$35,800	\$24,655	\$35,800	\$23,402	\$35,800	\$22,149	\$36,300	\$20,807	\$36,300	\$18,692	\$36,300	\$17,540	\$36,400	\$15,725	\$36,400	\$15,725	\$36,400	\$12,722	\$36,400	\$11,193	\$36,400	\$9,645
Spruce Hole SRLF	2013	10	\$222,500	\$31,713	\$254,213		\$11,047	\$13,336	\$21,942	\$3,595	\$22,315	\$3,222	\$22,694	\$2,843	\$23,080	\$2,457	\$23,473	\$2,065	\$23,872	\$1,666	\$24,277	\$1,260	\$24,690	\$947	\$25,110	\$427	
Water Meter Upgrade SRLF	2013	10	\$400,759	\$37,799	\$438,558		\$28,498	\$6,647	\$29,102	\$6,178	\$29,911	\$5,531	\$30,733	\$4,872	\$31,567	\$4,197	\$32,414	\$3,509	\$33,275	\$2,807	\$34,148	\$2,090	\$35,035	\$1,356	\$35,936	\$611	
TOTALS			\$5,205,576	\$1,358,904	\$6,564,480	\$159,160	\$56,722	\$202,135	\$70,888	\$328,935	\$112,503	\$382,946	\$114,576	\$298,077	\$99,571	\$299,297	\$89,174	\$290,634	\$78,365	\$258,388	\$70,137	\$259,666	\$59,367	\$261,387	\$50,501	\$262,708	\$41,576
						TOTAL 2013		TOTAL 2014		TOTAL 2015		TOTAL 2016		TOTAL 2017		TOTAL 2018		TOTAL 2019		TOTAL 2019		TOTAL 2019		TOTAL 2019		TOTAL 2019	
						\$215,882		\$273,023		\$441,438		\$487,522		\$397,646		\$388,471		\$368,999		\$328,525		\$319,033		\$311,888		\$304,284	



## APPROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Water Fund</b>																				
Spruce Hole Well Development	1	1,378,000																		
Wiswall Dam Spillway	2	70,000		465,000																
Backhoe Replacement (Cost split w/Oper. & WW)														27,125						
One Ton Utility Truck Replacement																		40,000		
<b>TOTAL WATER FUND</b>		<b>\$1,448,000</b>		<b>\$465,000</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$0</b>		<b>\$27,125</b>		<b>\$0</b>		<b>\$40,000</b>		<b>\$0</b>

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2013 - 2022 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Spruce Hole Well Development	<b>Chapter 7 PG 7.51</b>	Mandated	<b>X</b>									
Department Public Works		Council Goal										
Division Water		Dept. Goal										
Location Packers Falls Road												

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Final engineering and construction of a municipal well within the Spruce Hole Aquifer. Based on the preliminary engineering report, the most cost effective approach for connecting a new water source located within the Spruce Hole Aquifer includes utilizing the Lamprey River water main (a.k.a. Lamprey Hard Pipe). This would require sending water from the new well to the UNH Water Treatment Plant, and at times transferring water from the Lamprey River, via the capacity of the hard pipe, and discharging it into artificial recharge basins. Raw water from the Lamprey River would be filtered through the sediments of the aquifer and withdrawn by the proposed well as treated water. The final design will include a dual purpose piping configuration with valve clusters to convey water from either the new well to the Lamprey Hard Pipe or water from the Lamprey River Pump Station to artificial recharge basins. In addition to the piping and valve clusters, the design will also include overhead and/or underground 3-phase power, a well pump and electronic controls, and miscellaneous components required for water supply compliance, chemical adjustments, and disinfection.

#### RATIONALE: (Cost/Benefit Analysis)

The Town's Master Plan and 2004 Water Allocation Report calls for the development of the Spruce Hole Aquifer as the next water source for the Durham/UNH community. The demands on the water system at the times of dry/drought conditions lowers surface water supplies, and has the potential of creating an emergency condition for all users on the water system. The final phase of construction would connect the well to the distribution system.

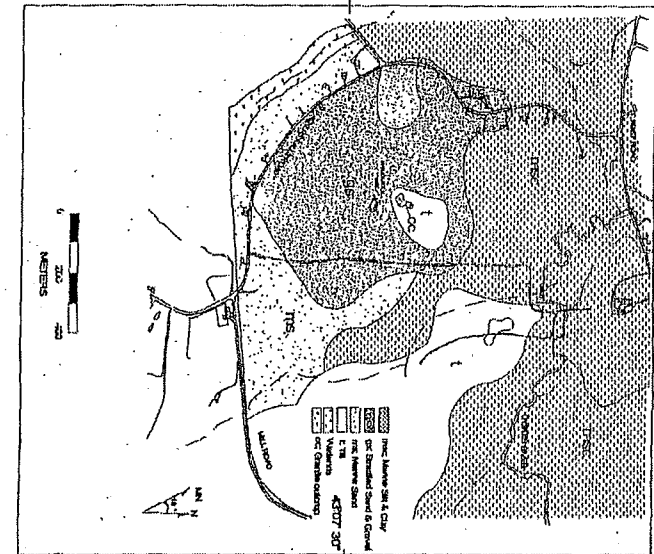
#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The project would be cost shared with UNH on a 2/3 UNH 1/3 Town basis. At this time future maintenance costs are undetermined, but existing Town staff is confident that we can handle the daily maintenance requirements of a new municipal well.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Engineering	302,000	95,000										397,000
Purch/Const.		1,283,000										1,283,000
<b>TOTAL</b>	<b>302,000</b>	<b>1,378,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,680,000</b>
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond	100,667	459,333										560,000
Federal												0
State												0
UNH	201,333	918,667										1,120,000
Trade In												0
Other												0
<b>TOTAL</b>	<b>302,000</b>	<b>1,378,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,680,000</b>

Figure 8-2. Surficial Geologic Map at the Spruce Hole Formation (Kenef, 1989).



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Wiswall Dam Spillway	N/A	Mandated	X	X								
Department Public Works		Council Goal										
Division Water		Dept. Goal										
Location Wiswall Dam												

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

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 project going forward will require additional engineering in 2014 to design and permit the solution, with construction expected to take place in 2015. The engineering and construction costs for 2015 are roughly estimated and will be refined in 2014.

#### RATIONALE: (Cost/Benefit Analysis)

The Wiswall Dam is considered a Significant Hazard (Class B) Dam by the Dam Bureau of the New Hampshire Department of Environmental Services. NHDES's Dam Safety standards dictate that all Class B dams be evaluated for stability and the risk of failure resulting in downstream flood inundation. Prior evaluations of the Wiswall Dam have show that additional structural measures are required to increase the stability of the Dam's spillway and reduce the risk of failure.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact on operating budget.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												
Design		70,000	90,000									160,000
Purch/Const.			375,000									375,000
<b>TOTAL</b>	0	70,000	465,000	0	0	0	0	0	0	0	0	535,000
<b>FUNDING:</b>												
Operating Rev.												
Capital Reserve												
Bond		70,000	465,000									535,000
Federal												
State												
UNH												
Trade In												
Other												
<b>TOTAL</b>	0	70,000	465,000	0	0	0	0	0	0	0	0	535,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

		MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Project Name	Backhoe Replacement	N/A											
Department	Public Works		Mandated										
Division	Operations, Water, WW		Council Goal							X			
Location	Various		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replace the 2006 JCB 4 Wheel Drive Backhoe.

#### RATIONALE: (Cost/Benefit Analysis)

This piece of equipment is scheduled for replacement in 2020. The 2006 JCB is on a 12 year replacement schedule. The machine is an essential piece of equipment for all Public Works Divisions and programs and is used year round. FUNDING: 50% Operations (\$54,250), 25% Water (\$27,125), 25% Wastewater (\$27,125- of which is 33% funded by UNH) will fund this purchase.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Minimal impact for the first three years due to warranty.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.								108,500				108,500
<b>TOTAL</b>	0	0	0	0	0	0	0	108,500	0	0	0	108,500
<b>FUNDING:</b>												
Operating - Gen								54,250				54,250
Operating - Water								27,125				27,125
Operation - WW								9,042				9,042
Bond												0
State/Federal												0
UNH								18,083				18,083
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	108,500	0	0	0	108,500



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	1-Ton Utility Truck Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated										
Division	Water		Council Goal									X	
Location	Stone Quarry Drive		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replace the Water Division's 2012 Ford 1-ton utility truck.

#### RATIONALE: (Cost/Benefit Analysis)

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.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

According to the New England Water Works Association equipment replacement survey 2022 is the optimum time to replace this piece of equipment.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.										40,000		40,000
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	40,000	0	40,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond										40,000		40,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	40,000	0	40,000



# Sewer Fund Proposed Bond Schedule

PROJECT NAME	PROJECT YEAR	BOND LENGTH	TOTAL AMOUNT BONDED/LEASED	ESTIMATED INTEREST COSTS	TOTAL ESTIMATED COST	2014 PRINCIPAL	2014 INTEREST	2015 PRINCIPAL	2015 INTEREST	2016 PRINCIPAL	2016 INTEREST	2017 PRINCIPAL	2017 INTEREST	2017 PRINCIPAL	2017 INTEREST	2019 PRINCIPAL	2019 INTEREST	2020 PRINCIPAL	2020 INTEREST	2021 PRINCIPAL	2021 INTEREST	2022 PRINCIPAL	2022 INTEREST	2023 PRINCIPAL	2023 INTEREST
Old Concord Road Pump Station	2011	20	\$750,000	\$261,779	\$1,011,779			\$40,000	\$27,351	\$40,000	\$24,211	\$40,000	\$22,747	\$40,000	\$21,473	\$40,000	\$20,119	\$40,000	\$17,755	\$40,000	\$17,391	\$40,000	\$16,027	\$40,000	\$14,663
WWTP Phase III Upgrades	2012	20	\$900,000	\$404,494	\$1,304,494			\$45,000	\$41,119	\$45,000	\$34,336	\$45,000	\$34,425	\$45,000	\$32,513	\$45,000	\$30,600	\$45,000	\$28,688	\$45,000	\$26,755	\$45,000	\$24,863	\$45,000	\$22,950
WWTP Phase III	2014	10	\$230,000	\$37,950	\$267,950			\$23,000	\$6,900	\$23,000	\$6,210	\$23,000	\$5,520	\$23,000	\$4,730	\$23,000	\$4,140	\$23,000	\$3,450	\$23,000	\$2,760	\$23,000	\$2,070	\$23,000	\$1,370
WW Facilities Plan	2014	10	\$560,000	\$92,400	\$652,400			\$56,000	\$16,700	\$56,000	\$15,120	\$56,000	\$13,440	\$56,000	\$11,760	\$56,000	\$10,070	\$56,000	\$7,400	\$56,000	\$6,720	\$56,000	\$5,040	\$56,000	\$3,360
Diesel Generator Replacement	2014	10	\$425,000	\$70,125	\$495,125			\$42,500	\$12,750	\$42,500	\$11,475	\$42,500	\$10,200	\$42,500	\$7,925	\$42,500	\$7,650	\$42,500	\$6,375	\$42,500	\$5,100	\$42,500	\$3,725	\$42,500	\$2,550
WWTP Phase III	2015	10	\$450,000	\$74,250	\$524,250					\$45,000	\$13,500	\$45,000	\$12,150	\$45,000	\$10,700	\$45,000	\$9,450	\$45,000	\$7,100	\$45,000	\$6,750	\$45,000	\$5,400	\$45,000	\$4,050
WW Facilities Plan	2015	10	\$354,000	\$57,410	\$411,410					\$35,400	\$10,620	\$35,400	\$9,557	\$35,400	\$7,496	\$35,400	\$7,434	\$35,400	\$6,372	\$35,400	\$5,310	\$35,400	\$4,247	\$35,400	\$3,176
Chemical Disinfectant Building	2015	20	\$747,000	\$355,740	\$1,102,740					\$42,350	\$33,770	\$42,350	\$32,176	\$42,350	\$30,492	\$42,350	\$27,797	\$42,350	\$27,104	\$42,350	\$25,410	\$42,350	\$23,716	\$42,350	\$22,022
Collection System Upgrade	2015	10	\$520,000	\$75,700	\$595,700					\$52,000	\$15,600	\$52,000	\$14,040	\$52,000	\$12,470	\$52,000	\$10,920	\$52,000	\$9,360	\$52,000	\$7,700	\$52,000	\$6,240	\$52,000	\$4,670
WWTP Phase III	2016	20	\$2,750,000	\$1,197,000	\$3,947,000							\$142,500	\$114,000	\$142,500	\$107,300	\$142,500	\$102,600	\$142,500	\$96,900	\$142,500	\$91,200	\$142,500	\$75,500	\$142,500	\$79,700
Wastewater Facilities Plan	2016	10	\$449,000	\$74,075	\$523,075							\$44,900	\$13,470	\$44,900	\$12,123	\$44,900	\$10,776	\$44,900	\$9,429	\$44,900	\$7,072	\$44,900	\$6,735	\$44,900	\$5,377
WWTP Phase III	2017	20	\$2,150,000	\$903,000	\$3,053,000									\$107,500	\$76,000	\$107,500	\$71,700	\$107,500	\$77,400	\$107,500	\$73,100	\$107,500	\$67,700	\$107,500	\$64,500
Wastewater Facilities Plan	2017	10	\$310,000	\$51,150	\$361,150									\$31,000	\$9,300	\$31,000	\$7,370	\$31,000	\$7,440	\$31,000	\$6,510	\$31,000	\$5,570	\$31,000	\$4,650
WWTP Phase III	2017	20	\$1,600,000	\$672,000	\$2,272,000											\$70,000	\$64,000	\$70,000	\$60,700	\$70,000	\$57,600	\$70,000	\$54,400	\$70,000	\$51,200
Wastewater Facilities Plan	2017	10	\$270,000	\$44,550	\$314,550											\$27,000	\$7,100	\$27,000	\$27,200	\$27,000	\$6,470	\$27,000	\$5,670	\$27,000	\$4,760
Wastewater Facilities Plan	2019	10	\$471,000	\$79,365	\$550,365													\$47,100	\$14,430	\$47,100	\$12,877	\$47,100	\$11,544	\$47,100	\$10,101
17" Force Main Replacement	2019	20	\$2,200,000	\$924,000	\$3,124,000													\$110,000	\$77,000	\$110,000	\$73,600	\$110,000	\$79,200	\$110,000	\$74,700
Wastewater Facilities Plan	2020	10	\$467,000	\$77,055	\$544,055															\$46,700	\$14,010	\$46,700	\$12,609	\$46,700	\$11,207
Wastewater Facilities Plan	2021	10	\$438,000	\$71,940	\$509,940																	\$43,800	\$13,070	\$43,800	\$11,772
Wastewater Facilities Plan	2022	10	\$475,000	\$77,375	\$552,375																			\$47,500	\$14,250
OUTSTANDING BONDS/LEASES/SRF LOANS																									
2002 Bond	2002	20	\$350,075	\$109,621	\$459,696	\$13,335	\$3,030	\$12,427	\$2,497	\$12,427	\$1,975	\$10,779	\$1,456	\$10,779	\$970	\$10,779	\$490								
2006 Bond	2006	20	\$325,469	\$130,711	\$456,180	\$15,060	\$7,975	\$15,060	\$7,400	\$15,060	\$6,715	\$15,401	\$6,213	\$15,401	\$5,597	\$15,401	\$4,971	\$15,401	\$4,365	\$15,401	\$3,749	\$15,662	\$3,132	\$15,662	\$2,506
2007 Bond	2007-2007	20	\$1,663,760	\$602,167	\$2,265,927	\$91,500	\$51,692	\$91,500	\$47,459	\$94,520	\$45,027	\$94,520	\$40,302	\$94,520	\$36,521	\$73,600	\$31,795	\$73,600	\$27,777	\$73,600	\$25,723	\$73,600	\$22,632	\$73,600	\$19,504
2010 Bond	2007-2010	20	\$756,000	\$315,723	\$2,265,927	\$40,000	\$26,063	\$40,000	\$24,463	\$40,000	\$23,263	\$40,000	\$22,063	\$40,000	\$20,063	\$40,000	\$17,763	\$40,000	\$16,763	\$35,000	\$14,763	\$35,000	\$13,113	\$35,000	\$11,363
2013 Bond	2013	20	\$2,500,000	\$1,077,194	\$3,577,194	\$95,000	\$85,656	\$95,000	\$84,944	\$100,000	\$83,064	\$100,000	\$80,064	\$105,000	\$75,063	\$105,000	\$73,913	\$105,000	\$66,545	\$110,000	\$66,543	\$110,000	\$63,263	\$115,000	\$59,943
ARRA Loan	2009	20	\$1,313,272	\$406,815	\$1,720,087	\$65,664	\$32,925	\$65,664	\$31,149	\$65,664	\$29,363	\$65,664	\$28,578	\$65,664	\$26,791	\$65,664	\$23,995	\$65,664	\$23,219	\$65,664	\$21,433	\$65,664	\$19,647	\$65,664	\$17,860
SRF Loan	2004	20	\$3,260,757	\$1,392,574	\$4,683,331	\$157,115	\$77,373	\$163,946	\$71,551	\$169,993	\$85,505	\$178,262	\$89,236	\$172,762	\$92,739	\$179,503	\$85,995	\$196,492	\$39,005	\$203,737	\$31,759	\$211,252	\$24,246	\$219,043	\$16,455
TOTALS			\$26,713,333	\$9,836,163	\$40,039,120	\$477,674	\$284,684	\$690,097	\$374,283	\$878,914	\$419,754	\$1,071,276	\$519,635	\$1,211,276	\$562,021	\$1,324,097	\$590,648	\$1,457,407	\$641,867	\$1,511,352	\$610,405	\$1,562,728	\$569,358	\$1,623,019	\$538,659
						TOTAL 2014		TOTAL 2015		TOTAL 2016		TOTAL 2017		TOTAL 2017		TOTAL 2017		TOTAL 2017		TOTAL 2017		TOTAL 2017		TOTAL 2017	
						\$762,358		\$1,064,390		\$1,288,668		\$1,590,911		\$1,773,297		\$1,914,745		\$2,099,274		\$2,121,757		\$2,132,086		\$2,161,678	

# APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>Wastewater Fund</b>																				
WWTP Phase III	1	230,000	1	450,000	1	2,850,000	1	2,150,000	1	1,600,000										
Wastewater Facilities Plan	3	560,000	2	354,000	2	449,000	2	310,000	2	270,000	1	481,000	1	467,000	1	436,000	1	475,000	1	478,000
Diesel Generator Replacement	2	425,000																		
Chemical Disinfectant Building	4	63,000	3	847,000																
Collection System Upgrades	5	50,000	4	520,000																
18" Force Main Replacement									3	252,000	2	2,200,000								
Backhoe Replacement (Cost split w/Oper. & Water)													2	27,125						
3/4 Ton Pickup Truck Replacement									4	31,900	3	32,900								
Commercial Lawnmower																2	16,440			
<b>TOTAL WASTEWATER FUND</b>		<b>\$1,328,000</b>		<b>\$2,171,000</b>		<b>\$3,299,000</b>		<b>\$2,460,000</b>		<b>\$2,153,900</b>		<b>\$2,713,900</b>		<b>\$494,125</b>		<b>\$436,000</b>		<b>\$491,440</b>		<b>\$478,000</b>

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

		MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Project Name	WWTP Phase III												
Department	Public Works	N/A	Mandated	X	X	X	X	X					
Division	Wastewater		Council Goal										
Location	Wastewater Treatment Plant		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

- This project is a three phase approach to maintaining compliance with new discharge limits established under the National Pollution Discharge Elimination System (NPDES): Phase I – engineering design; Phase II – pilot modification of WWTP treatment processes to further optimize nutrient removal; Phase III - upgrade to construct more tankage and regain WWTP capacity based on results of optimizations in Phases II pilot.
- Prior WWTP upgrades have significantly improved the biological nutrient removal capability at the WWTP from 25 to 8 mg/l Total Nitrogen; however, this required forfeiting treatment capacity to the extent that the facility will be in need of a phase III upgrade to regain this capacity within 3 to 5 years.
- Based on other newly issued NPDES wastewater discharge permits issued to Newmarket and Exeter, a nitrogen discharge limit as low as 3 mg/l Total N will be required.
- NPDES permit requirements will also include measure to address excessive non-point source pollution in the watershed based on Newmarket and Exeter's new NPDES permits.
- Designing the Phase III WWTP upgrade is currently underway and which is a schedule the construction of this upgrade will be required for permit compliance.

#### RATIONALE: (Cost/Benefit Analysis)

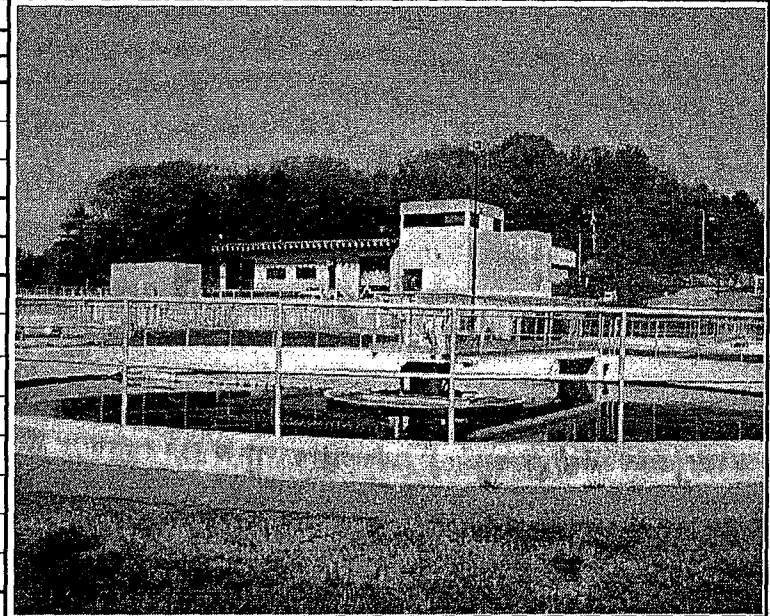
NPDES Permit renewal was due in 2005. EPA should have issued a new draft and final NPDES permit in 2004 for the 2005-2010 time frame. As of the writing of this document the town has still not received a new National Pollution Discharge Elimination System (NPDES) Permit. Stricter limits on Copper, Zinc, Nitrogen and Ammonia are expected. The recent Draft Wastewater Facilities Plan update prepared by Wright-Pierce recommends upgraded the Treatment Plan to an enhanced biological nutrient removal process and carry out a pilot test to evaluate the best treatment options. Pending the new NPDES Permit, engineering & design is anticipated to start in 2013, the pilot test will take place in 2013 and 2014, design of the new upgrade in 2015, and construction is anticipated to begin in 2016.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Funding will come from the joint Town of Durham and UNH Capital Reserve Fund, bonding and possible assistance by the State Revolving Loan Fund offered by the State of New Hampshire.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												
Design		40,000	250,000	350,000	150,000	100,000						890,000
Purch/Const.		190,000	200,000	2,500,000	2,000,000	1,500,000						6,390,000
<b>TOTAL</b>	<b>0</b>	<b>230,000</b>	<b>450,000</b>	<b>2,850,000</b>	<b>2,150,000</b>	<b>1,600,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,280,000</b>
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond		76,667	150,000	950,000	716,667	533,333						2,426,667
Federal												0
State												0
UNH Bond		153,333	300,000	1,900,000	1,433,333	1,066,667						4,853,333
Trade In												0
Other												0
<b>TOTAL</b>	<b>0</b>	<b>230,000</b>	<b>450,000</b>	<b>2,850,000</b>	<b>2,150,000</b>	<b>1,600,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,280,000</b>





# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Wastewater Facilities Plan	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	Chapter 7 7.40	Mandated	X	X	X	X	X	X	X	X	X	X
Division	Wastewater		Council Goal										
Location	Wastewater Treatment Plant		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Wastewater Facilities Plan (formerly "Major Components") includes the major maintenance and replacement of existing wastewater infrastructure, as well as laboratory or processing equipment upgrades in need of replacement for the wastewater process to continuing running efficiently. The mechanical equipment within the wastewater division is used twenty four hours a day, seven days a week. The components listed below are all between 18 years old and 30 years old.

#### RATIONALE: (Cost/Benefit Analysis)

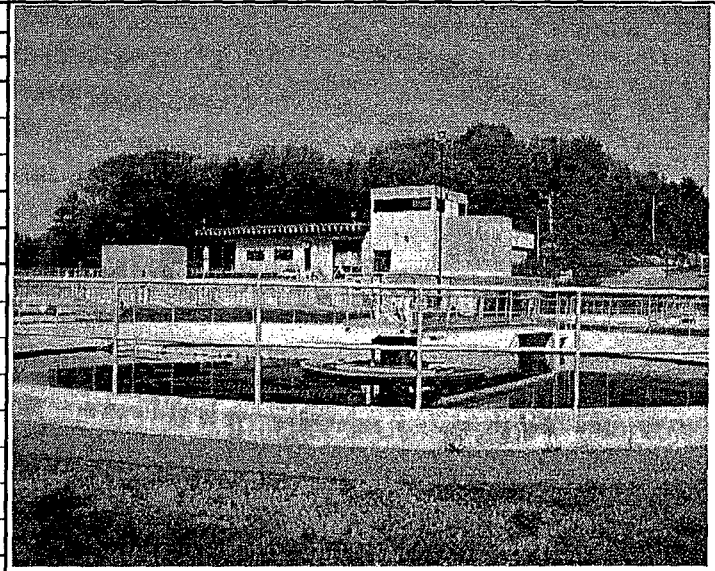
2014	Upgrade heating, a.c., and lighting in headworks \$48,000, upgrade lighting in control bldg \$145,000, replace aeration diffusers \$367,000.
2015	Primary clarifier upgrades \$98,000, (2) RAS pump replacements \$159,000, upgrade chlorine contact tank \$24,000, replace yard pump station \$73,000.
2016	Install internals for grit tank #2 \$257,000, replace (3) scum pumps \$135,000, replace electrical manhole \$57,000.
2017	Replace windows and doors in control and sludge building \$68,000, update fire alarm system \$32,000, upgrade electrical equipment for compliance \$210,000.
2018	Replace (2) WAS pumps \$122,000, install kick plates around all railings \$51,000, replacement of primary clarifier gates \$73,000, additional Sodium Hydroxide tanks \$24,000.
2019	Relocate basement electrical controls to electric room. \$481,000.
2020	Install a partition wall in sludge building \$402,000, regrout and finish sludge building floors \$65,000.
2021	Replace (4) primary sludge pumps \$293,000, replace ventilation and heating system in blower room \$70,000, upgrade lower east ventilation room \$73,000.
2022	Replace grit tank #1 hardware \$257,000, replace grit blowers \$73,000, fixture replacement w/ accessibility \$145,000.
2023	Upgrade headworks ventilation \$116,000, upgrading primary clarifier for nutrient removal \$160,000, investigate solar array for rooftops on buildings \$202,000.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

These are upgrades are necessary due to age and wear and tear. No change to the operating budget if replaced on schedule.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design		84,000	53,100	67,350	46,500	40,500	72,150	81,750	65,400	71,250	71,700	653,700
Purch/Const.		476,000	300,900	381,650	263,500	229,500	408,850	385,250	370,600	403,750	406,300	3,626,300
<b>TOTAL</b>	0	560,000	354,000	449,000	310,000	270,000	481,000	467,000	436,000	475,000	478,000	4,280,000
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond		186,667	118,000	149,667	103,333	90,000	160,333	155,667	145,333	158,333	159,333	1,426,667
Federal												0
State												0
UNH Bond		373,333	236,000	299,333	206,667	180,000	320,667	311,333	290,667	316,667	318,667	2,853,333
Trade In												0
Other												0
<b>TOTAL</b>		560,000	354,000	449,000	310,000	270,000	481,000	467,000	436,000	475,000	478,000	4,280,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Diesel Generator Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated	X									
Division	Wastewater		Council Goal										
Location	Wastewater Treatment Plant		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replacement of Wastewater diesel generator.

#### RATIONALE: (Cost/Benefit Analysis)

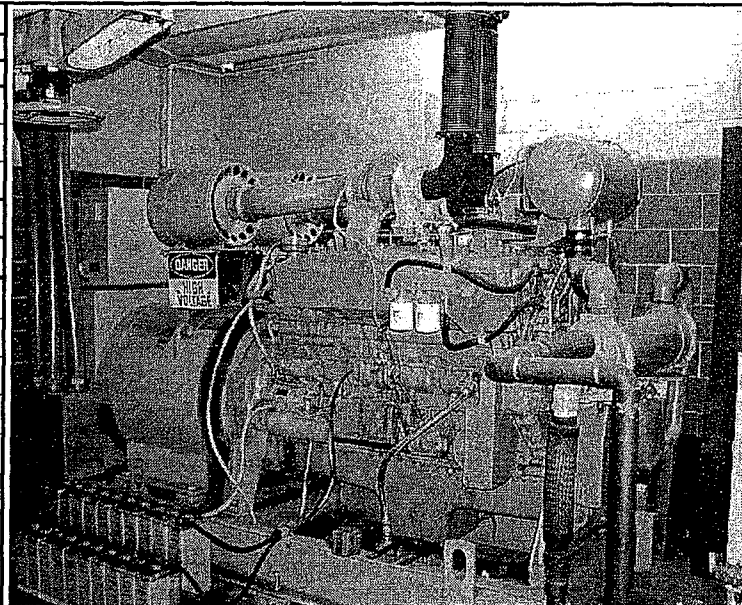
Emergency generator to run the Wastewater Treatment Plant in a power failure. Current unit is a 1995 model and has a 15 year life expectancy.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No future impact on maintenance costs.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												
Design												
Purch/Const.		425,000										425,000
<b>TOTAL</b>	0	425,000	0	0	0	0	0	0	0	0	0	425,000
<b>FUNDING:</b>												
Operating Rev.												
Capital Reserve												
Bond		141,666										141,666
Federal												
State												
UNH Bond		283,334										283,334
Trade In												
Other												
<b>TOTAL</b>	0	425,000	0	0	0	0	0	0	0	0	0	425,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Chemical Disinfectant Building	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works		Mandated	X									
Division	Wastewater		Council Goal	X	X								
Location	WWTP		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

A chemical disinfectant building has been identified just recently as the best and most practical solution to a mounting problem with deteriorating disinfection chemical storage and feed systems at the Wastewater Treatment Plant. The sodium hypochlorite and sodium bisulfate storage tanks and the associated chemical feed systems are exterior systems, and it has become apparent that the combination of the corrosive chemicals and exposure to the elements have caused serious degradation. The most practical solution is to construction a new building to house these tanks and systems located adjacent to the existing facilities which would allow for continued uninterrupted operation during construction. A reconfigured chemical feed system will also improve the disinfection efficiency and effectiveness. This project has recently been included as a top priority in the new ten (10) year Wastewater Facilities Plan.

#### RATIONALE: (Cost/Benefit Analysis)

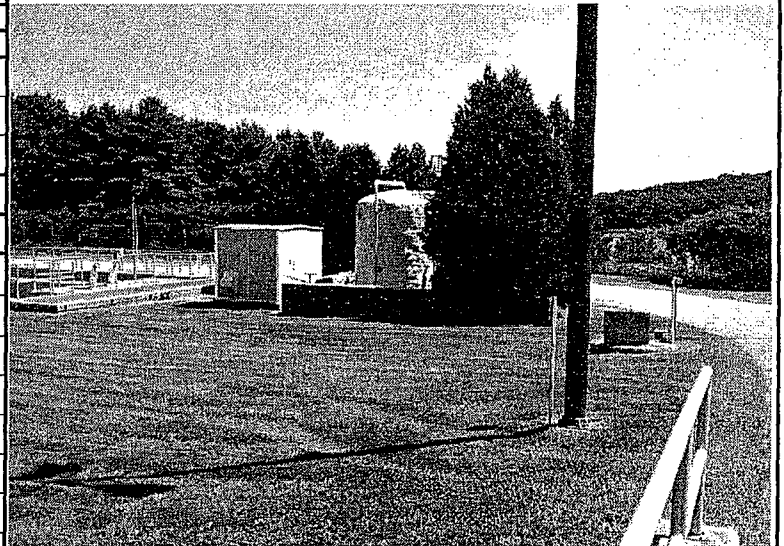
The cost/benefit is to reduce the time delay and to streamline chemical feed operations. It is recommended that the sodium hypochlorite storage and feed system, sodium bisulfite storage and feed, and chlorine residual analyzer be relocated within a new chemical storage building and closer to the chlorine contact tanks. This eliminates the inefficient effluent loop pumps which currently pumping directly to the WWTP laboratory. It was hoped that these systems would hold up for a few more years so the replacement could be done as part of the upcoming WWTP upgrade; however, due to significant corrosion in the sytems it has become necessary to move up the start date of this project.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

It is expected that this project should improve efficiency and therefore reduce operating costs.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design		63,000										63,000
Purch/Const.			847,000									847,000
<b>TOTAL</b>	<b>0</b>	<b>63,000</b>	<b>847,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>910,000</b>
<b>FUNDING:</b>												
Operating Rev.		21,000										21,000
Capital Reserve												0
Bond			282,333									282,333
Federal												0
State												0
UNH		42,000	282,333									324,333
Trade In												0
Other												0
<b>TOTAL</b>	<b>0</b>	<b>63,000</b>	<b>847,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>910,000</b>



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Collection System Upgrades	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	Chapter 7 7.42	Mandated	X									
Division	Wastewater		Council Goal	X	X								
Location	Various		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Repairs will be made to the wastewater collection system including line replacement and line repairs, engineering investigation, sewer manhole rehabilitation or replacement. This project also includes inflow and infiltration within the wastewater collection system. Inflow is the illegal connection of plumbing such as a sump pump into the Wastewater Collection System and infiltration is the seepage of groundwater or storm water into the Wastewater Collection System.

#### RATIONALE: (Cost/Benefit Analysis)

2014 - Woodside/Briarwood/Bagdad Investigation \$50,000

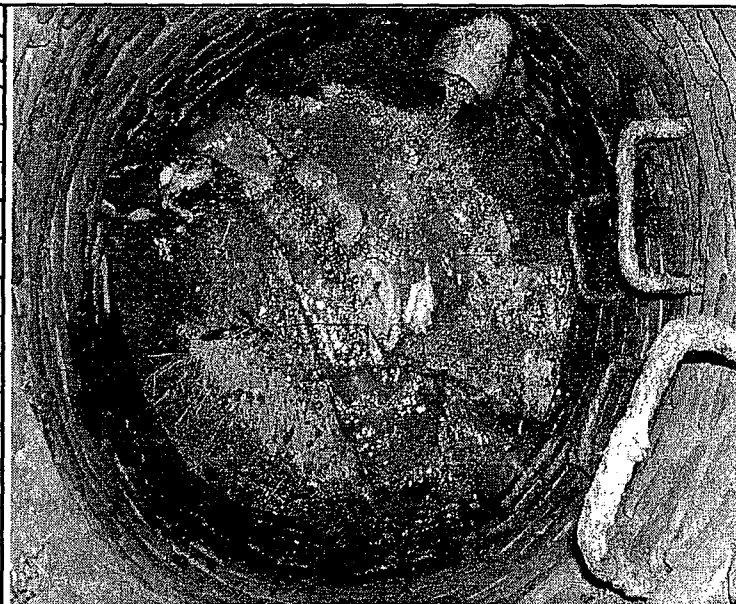
2015 - Upgrade of the Pettee Brook Interceptor consisting of the replacement of 1000 feet of collection pipe and 10 sewer manholes between the south facing houses on Woodman Road and the Pettee Brook stream \$520,000

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The amount of staff time spent on collection system maintenance will decrease as these problem areas are corrected.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.		50,000	520,000									570,000
<b>TOTAL</b>		50,000	520,000									570,000
<b>FUNDING:</b>												
Operating Rev.		50,000										50,000
Capital Reserve												0
Bond			520,000									520,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
<b>TOTAL</b>		50,000	520,000									570,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	18" Force Main Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated	X									
Division	Wastewater		Council Goal					X	X				
Location	Wastewater Treatment Plant		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

This 18-inch diameter wastewater force main pipe carries all of the Town's wastewater (up to 2.4 million gallons per day) under pressure from the Dover Road Wastewater Pump Station to Durham's Wastewater Treatment Plant. This pipe was constructed of asbestos cement in the mid-1960s and is approaching the end of its useful life. It is anticipated that the pipe will be replaced along a similar alignment using modern methods and materials that are longer lasting.

Will require passage of warrant article at the Town Election by a 2/3 vote.

#### RATIONALE: (Cost/Benefit Analysis)

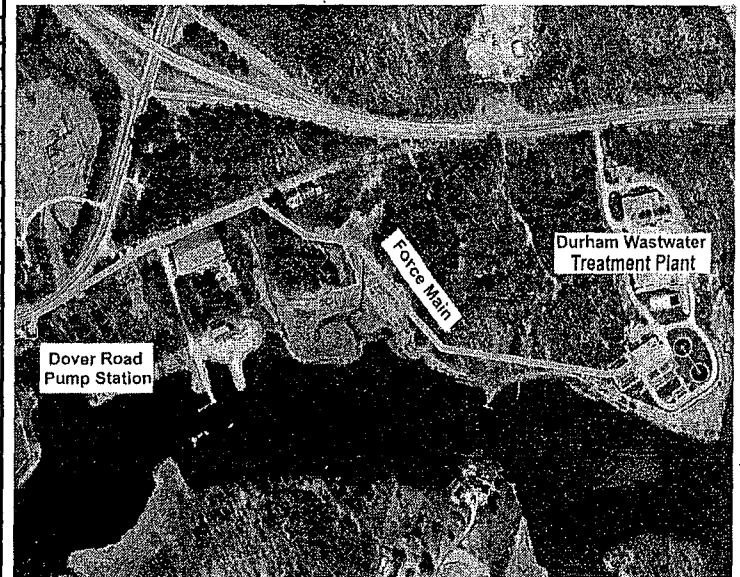
An investigation of pipe in 2008 revealed signs of diminished pipe capacity. Asbestos cement piping is no longer used in the industry because of its tendency to deteriorate over time, which is particularly a problem with piping that is under pressure. Asbestos pipe is not smooth and creates friction which over time makes the pumping of wastewater more difficult.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact on operating budget.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												
Design						252,000						252,000
Purch/Const.							2,200,000					2,200,000
<b>TOTAL</b>	0	0	0	0	0	252,000	2,200,000	0	0	0	0	2,452,000
<b>FUNDING:</b>												
Operating Rev.												
Capital Reserve						252,000						252,000
Bond							733,333					733,333
Federal												
State												
UNH Bond							1,466,667					1,466,667
Trade In												
Other												
<b>TOTAL</b>	0	0	0	0	0	252,000	2,200,000	0	0	0	0	2,452,000



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Backhoe Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated										
Division	Operations, Water, WW		Council Goal							X			
Location	Various		Dept. Goal	X									

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replace the 2006 JCB 4 Wheel Drive Backhoe.

#### RATIONALE: (Cost/Benefit Analysis)

This piece of equipment is scheduled for replacement in 2020. The 2006 JCB is on a 12 year replacement schedule. The machine is an essential piece of equipment for all Public Works Divisions and programs and is used year round. FUNDING: 50% Operations (\$54,250), 25% Water (\$27,125), 25% Wastewater (\$27,125- of which is 33% funded by UNH) will fund this purchase.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Minimal impact for the first three years due to warranty.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.								108,500				108,500
<b>TOTAL</b>	0	0	0	0	0	0	0	108,500	0	0	0	108,500
<b>FUNDING:</b>												
Operating - Gen								54,250				54,250
Operating - Water								27,125				27,125
Operation - WW								9,042				9,042
Bond												0
State/Federal												0
UNH								18,083				18,083
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	108,500	0	0	0	108,500



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
3/4 Ton Pick-ups	N/A	Mandated										
Department Public Works		Council Goal					X	X				
Division Wastewater		Dept. Goal										
Location Wastewater Treatment Plant												

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Wastewater Treatment Plant motor pool consists of two ¾ Ton pickup trucks. The truck fleet is on a 10 -12 year replacement plan. According to this plan the 2007 ¾ Ton Pick-up Truck will be replaced in 2018 and the 2008 ¾ Ton Pick-up truck in 2019.

#### RATIONALE: (Cost/Benefit Analysis)

The Wastewater Division has 2 Pick-up trucks which are utilized by 5 employees. This Division is responsible for the maintenance of the Treatment Plant, Wastewater Collection System and five Pump Stations.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact to other Departments, normal future maintenance costs (i.e. tires, battery, oil, filters). This division has downsized these vehicles over the past 10 years.

### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.						31,900	32,900					64,800
<b>TOTAL</b>	0	0	0	0	0	31,900	32,900	0	0	0	0	64,800
<b>FUNDING:</b>												
Operating Rev.						10,633	10,967					21,600
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH						21,267	21,933					43,200
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	31,900	32,900	0	0	0	0	64,800





# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Commercial Lawnmower	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works		Mandated										
Division	Wastewater		Council Goal									X	
Location	Wastewater Treatment Plant		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

Replacement of 2013 zero turning radius commercial lawn mower needed to maintain the five acre Wastewater Treatment site.

#### RATIONALE: (Cost/Benefit Analysis)

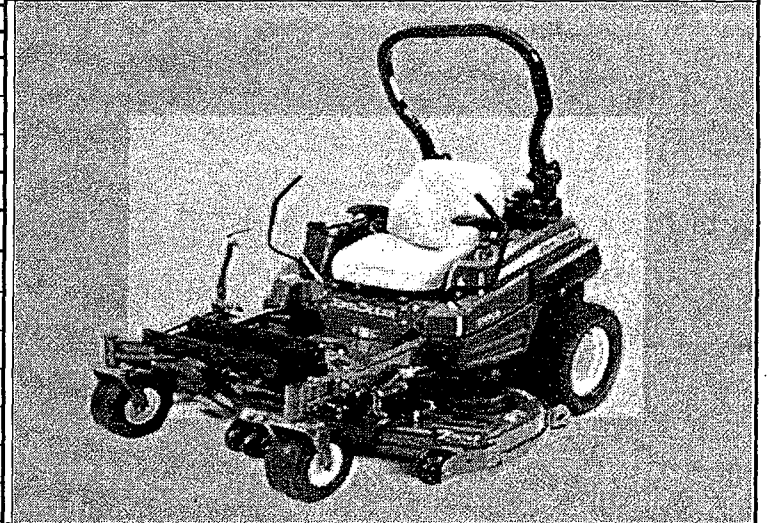
The current mower will be 9 years old in 2022 and due to wear and tear and reduced performance needs to be replaced.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Minor routine maintenance.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.										16,440		16,440
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	16,440	0	16,440
<b>FUNDING:</b>												
Operating Rev.										5,480		5,480
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH										10,960		10,960
Trade In												0
Other												0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0	16,440	0	16,440





# APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>STONE QUARRY DRIVE TIF DISTRICT</b>																				
Phase III - Infrastructure improvements (Trail to Durham Business Park)							1	79,030												
<b>TOTAL SQD TIF DISTRICT</b>		\$0		\$0		\$0		\$79,030		\$0		\$0		\$0		\$0		\$0		\$0
<b>DOWNTOWN TIF DISTRICT</b>																				
Implementation of Improvements	1	100,000	1	118,080			1	77,297			1	651,871								
<b>TOTAL DT TIF DISTRICT</b>		\$100,000		\$118,080		\$0		\$77,297		\$0		\$651,871		\$0		\$0		\$0		\$0

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Stone Quarry Drive TIF Phase III	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Public Works	N/A	Mandated										
Division	Operations		Council Goal									X	
Location	Old Piscataqua Rd/ Route 4		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The third phase of the creation of the Stone Quarry Drive Mixed Use Tax Increment Finance (TIF) District includes 1500 foot multi purpose trail from Jackson's Landing to the Durham Business Park.

#### RATIONALE: (Cost/Benefit Analysis)

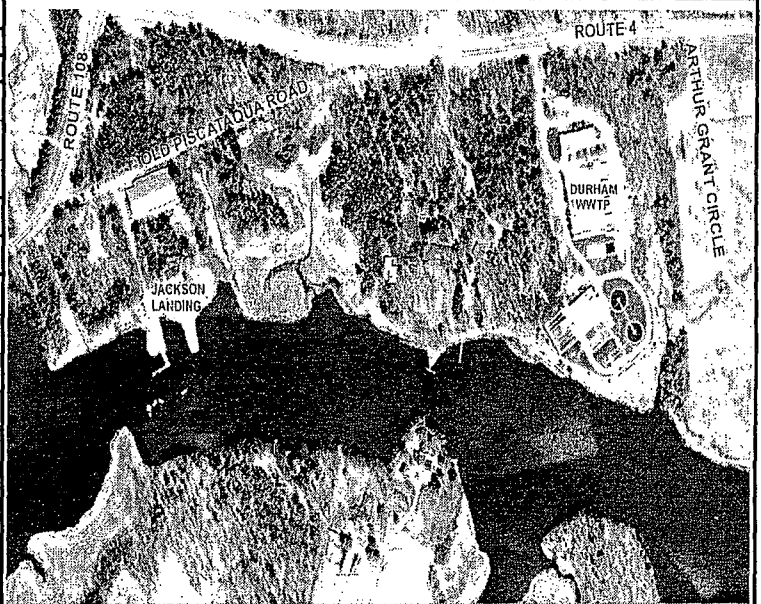
The Town rationale for recreation parking and trails is to balance the TIF district with both infrastructure and recreational improvements. The trail will allow for safer travel between the two locations.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Minor impact to the Public Works budget and staff due to summer and winter maintenance.

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design												0
Purch/Const.					79,030							79,030
<b>TOTAL</b>	0	0	0	0	79,030	0	0	0	0	0	0	79,030
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other					79,030							79,030
<b>TOTAL</b>	0	0	0	0	79,030	0	0	0	0	0	0	79,030



# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	Downtown TIF District	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Department	Administration	N/A	Mandated	X	X		X		X				
Division	Administration		Council Goal										
Location	Downtown		Dept. Goal										

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

The Downtown TIF District currently anticipates three projects: 1) Pettee Brook Lane Improvements, 2) Parking Kiosks, and 3) Planning, engineering and implementation of a two way traffic pattern. The first two projects were included in previous CIPS, and are now included in the Downtown TIF because they are consistent with TIF objectives and the overall cost will be reduced as a result of the TIF funding formulas.

#### RATIONALE: (Cost/Benefit Analysis)

Additional detail is available in the Downtown Tax Increment Finance District Plan

- 1) Pettee Brook Lane Improvements - Bring roadway into conformance with 1999 Mainstreet Enhancement and Improve safety,
- 2) Parking Kiosks - Increase payment options and increase parking management options. Resolve parts availability and maintenance issues with existing parking meters. Improves downtown appearance.
- 3) Two way traffic pattern - Reconfiguration of traffic pattern that is consistent with the Commercial Core Strategic Plan (B. Dennis Report) to create a traffic calming, increased pedestrian safety and an environment conducive to increased retail and business activity.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

- 1) Pettee Brook Lane Improvements - Negligible Impact
- 2) Parking Kiosks - Negligible Impact. Cost for data connectivity and maintenance anticipated to exist in Parking Capital Reserve Fund
- 3) Two Way Traffic pattern - Maintenance and Electricity for traffic control systems (01-4312-826-15: \$2,500 01-4312-826: \$3,000)

#### FINANCIAL PLAN

	PRIOR	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												0
Design					77,297							77,297
Purch/Const.		100,000	118,080				651,871					869,951
<b>TOTAL</b>	0	100,000	118,080	0	77,297	0	651,871	0	0	0	0	947,248
<b>FUNDING:</b>												
Operating Rev.												0
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other		100,000	118,080	0	77,297		651,871					947,248
<b>TOTAL</b>	0	100,000	118,080	0	77,297	0	651,871	0	0	0	0	947,248



## APROVED 2014-2023 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021	Rank	2022	Rank	2023
<b>CHURCHILL RINK</b>																				
Churchill Rink Renovations			1	300,000			1	100,000	1	100,000										
<b>TOTAL CHURCHILL RINK</b>		\$0		\$300,000		\$0		\$100,000		\$100,000		\$0		\$0		\$0		\$0		\$0

# TOWN OF DURHAM, NEW HAMPSHIRE

## 2014 - 2023 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23
Churchill Rink Renovations	Chapter S	Mandated										
Department Public Works		Council Goal		X		X	X					
Division Building & Grounds		Dept. Goal										
Location Jacksons Landing												

### PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

#### DESCRIPTION:

In 1973, a group of volunteers led by Dr. Bob Bath and Bill Davidson created a public skating rink at the current Jacksons Landing recreational area. The rink quickly became popular and eventually became managed by the DPW. The original rink was a gravel pad with wooden sideboards. Over time the rink has been developed into a significant facility but still lacks the amenities it needs to stay competitive in today's market. This CIP project will meet the needs of the people who currently use the rink by creating warm elevated seating options and improved locker room and bathroom facilities.

2014 - Installation of 80-100 portable bleacher style seats which are able to be closed and moved during the off season which will allow the area to be used for other functions. - REMOVED BY TOWN COUNCIL PENDING FURTHER REVIEW.

2015 - Addition of new locker rooms and restrooms.

2017 - Construction of 20 foot enclosure/addition to the west end gable side of the existing rink.

2018 - Renovation of existing locker rooms, restrooms and Zamboni room.

#### RATIONALE: (Cost/Benefit Analysis)

With these additions and renovations the DPW and Parks and Rec. Dept. see great potential for the Jackson Landing location utilizing new recreational possibilities for the Parks and Recreation Department on a year round schedule. Chapter S of the Master Plan discusses Durham Recreation as the following: Investment in recreation 1) projects a healthy Town image; 2) reflects our commitment to our children and our natural resources; and 3) ultimately brings the community together not only physically at a particular site, but also enhances the Town's collective identity and connections through shared experiences.

#### OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Currently the Churchill Rink has \$163,236 in its fund balance. The 4 phase renovation is estimated at \$850,000 and is expected to raise the revenues by \$42,000 over the next five (5) years.

FINANCIAL PLAN												
	PRIOR	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	TOTAL
<b>EXPENDITURES:</b>												
Pre-Design												
Design												65,000
Purch/Const.				300,000		100,000	100,000					500,000
<b>TOTAL</b>	0	0	0	300,000	0	100,000	100,000	0	0	0	0	850,000
<b>FUNDING:</b>												
Operating Rev.												
Capital Reserve												
Bond				300,000		100,000	100,000					500,000
Federal												
State												
UNH												
Trade In												
Other												0
<b>TOTAL</b>	0	0	0	300,000	0	100,000	100,000	0	0	0	0	850,000

