



2014-21 CAPITAL IMPROVEMENT PROGRAM

Presented to the
Merrimack Town Council
December 4, 2014

Minimum CRF Funding

Ambulance	50,000
Athletic Field Development	-
Communications Equipment	20,000
Computer Equipment	50,000
DW Highway Intersection Improvements	25,000
Fire Equipment	150,000
Highway Equipment	275,000
Land Bank	-
Landfill	-
Library Construction	-
Library Bld Maintenance	TBD
Playground Equipment	-
Real Estate Reappraisal	15,000
Road Improvements	-
Salt Shed	-
Sewer Line Extension	-
Road Infrastructure CRF	400,000
Solid Waste Disposal	75,000
Fire Station	-
Traffic Signal Pre-emption System	-
Total property tax financing of capital reserve fund transfers	1,060,000
<u>Sewer Fund</u>	
Sewer Infrastructure Improvements	<u>50,000</u>
<u>Expendable Trust Funds</u>	
Milfoil	-
Total CRF & Expendable Trust Funds	1,110,000

2014-21 CRF Funding Projections

	Historic Funding					Projected Funding					
<u>Capital Reserve Fund</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>2015-16</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>
Ambulance	50,000	50,000	50,000	12,000	50,000	60,000	75,000	80,000	80,000	80,000	80,000
Athletic Field Development	-	-	-	-	-	-	-	-	-	-	-
Communications Equipment	-	-	10,000	10,000	25,000	200,000	185,000	185,000	25,000	25,000	25,000
Computer Equipment	5,000	-	35,000	35,000	35,000	35,000	75,000	75,000	75,000	50,000	50,000
DW Highway Intersection Improvements	-	25,000	25,000	25,000	50,000	50,000	75,000	75,000	75,000	75,000	75,000
Fire Equipment	100,000	100,000	100,000	100,000	75,000	125,000	175,000	250,000	251,000	250,000	250,000
Highway Equipment	168,000	176,960	250,000	300,000	300,000	300,000	300,000	350,000	400,000	400,000	400,000
Land Bank	-	-	-	-	-	-	-	-	-	-	-
Landfill	-	-	-	-	-	-	-	-	-	-	-
Library Bld Maintenance	2,000	2,000	2,000	2,000	17,000	10,000	45,000	45,000	45,000	50,000	50,000
Playground Equipment	-	-	-	-	-	-	-	-	-	-	-
Real Estate Reappraisal	-	-	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Salt Shed	-	-	-	-	-	-	-	-	-	-	-
Sewer Line Extension	-	-	-	-	-	-	-	-	-	-	-
Road Infrastructure CRF	-	185,000	400,000	400,000	400,000	600,000	600,000	600,000	600,000	600,000	600,000
Solid Waste Disposal	40,000	-	50,000	75,000	75,000	75,000	100,000	125,000	150,000	150,000	150,000
Fire Station	-	-	-	-	-	-	-	-	-	-	-
GIS	-	-	-	-	10,000	65,000	65,000	65,000	20,000	20,000	20,000
Traffic Signal Pre-emption System	-	-	-	-	-	10,000	20,000	20,000	-	-	-
Capital Reserve Fund Transfers	365,000	538,960	937,000	974,000	1,052,000	1,545,000	1,730,000	1,885,000	1,736,000	1,715,000	1,715,000
<u>Expendable Trust Funds</u>											
Milfoil	-	-	-	-	25,000	15,000	10,000	10,000	25,000	10,000	10,000
Total property tax financing	365,000	538,960	937,000	974,000	1,077,000	1,560,000	1,740,000	1,895,000	1,761,000	1,725,000	1,725,000
<u>Sewer Fund</u>											
Sewer Infrastructure Improvements	350,000	225,000	25,000	25,000	25,000	75,000	75,000	75,000	100,000	100,000	100,000
Total CRF & Expendable Trust Funds	715,000	763,960	962,000	999,000	1,102,000	1,635,000	1,815,000	1,970,000	1,861,000	1,825,000	1,825,000

2015-16 Projected CRF Funding

	2014-15	2015-16	Diff
Ambulance	50,000	60,000	10,000
Athletic Field Development	-	-	-
Communications Equipment	25,000	200,000	175,000
Computer Equipment	35,000	35,000	-
DW Highway Intersection Improvements	50,000	50,000	-
Fire Equipment	75,000	125,000	50,000
Highway Equipment	300,000	300,000	-
Land Bank	-	-	-
Landfill	-	-	-
Library Bld Maintenance	17,000	10,000	(7,000)
Playground Equipment	-	-	-
Real Estate Reappraisal	15,000	15,000	-
Road Improvements	-	-	-
Salt Shed	-	-	-
Sewer Line Extension	-	-	-
Road Infrastructure CRF	400,000	600,000	200,000
Solid Waste Disposal	75,000	75,000	-
GIS CRF	10,000	65,000	55,000
Fire Station	-	-	-
Traffic Signal Pre-emption System	-	10,000	10,000
Total property tax financing of capital reserve fund transfers	1,052,000	1,545,000	493,000
<u>Expendable Trust Funds</u>			
Milfoil	25,000	15,000	(10,000)
Total General Fund	1,077,000	1,560,000	483,000
<u>Sewer Fund</u>			
Sewer Infrastructure Improvements	25,000	75,000	50,000
Total CRF & Expendable Trust Funds	1,102,000	1,635,000	533,000

Major Projects General Fund

No	Department	Project Description	Funding Source	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
1	Fire	South Fire Station (\$3,105,000)	R Fire Station CRF (South)	60,000	-	-	200,000	-	-	-
			Bond	-	-	-	2,195,000	-	-	-
			Private Donation	-	-	-	650,000	-	-	-
2	Admin/Engineering	Bridge Replacement - McGaw Bridge Rd. (\$1,650,000)	R Road Infrastructure CRF	330,000	-	-	-	-	-	-
			State Funding	1,320,000	-	-	-	-	-	-
3	Admin/Engineering	Bridge Replacement - Bean Road (\$1,600,000)	R Road Infrastructure CRF	-	320,000	-	-	-	-	-
			State Funding	-	1,280,000	-	-	-	-	-
4	Admin/Engineering	Bridge Replacement - Bedford Rd/Baboosic Brook (\$2,727,500)	R Road Infrastructure CRF	-	-	545,500	-	-	-	-
			State Funding	-	-	2,182,000	-	-	-	-
5	Admin/Engineering	Bridge Replacement - US 3 (DW Highway)/Baboosic Brook (\$2,520,000)	R Road Infrastructure CRF	-	-	-	-	504,000	-	-
			State Funding	-	-	-	-	2,016,000	0	-
6	Admin/Engineering	Stormwater Drainage Improvements (\$100,000/\$200,000)	R Road Infrastructure CRF	100,000	100,000	100,000	100,000	100,000	200,000	200,000
7	Admin/Engineering	Paving - Infrastructure Improvements (\$800,00 to \$1,000,000)	R Road Improvement (Registration Fee)	135,000	125,000	125,000	125,000	125,000	125,000	125,000
			Budget	665,000	675,000	675,000	675,000	675,000	675,000	675,000
8	Admin/Engineering	Paving - Infrastructure Improvements (\$300,000) Gravel Roads	R Road Infrastructure CRF	-	-	-	-	-	-	300,000
9	Admin/Engineering	Paving - DW Highway (\$400,000)	R DW Highway CRF	-	400,000	-	-	-	-	-
			Offset by Developer Fees	-	-	-	-	-	-	-
10	Admin/Engineering	Paving - Infrastructure Improvements Executive Park Drive (\$150,000)	R Road Infrastructure CRF	-	-	-	-	-	-	150,000
11	Highway	Highway Garage Renovation & Replacement (\$3,300,000)	R Bond	-	-	3,300,000	-	-	-	-
12	Admin/Engineering	Wire Road Intersection Improvements (\$500,000)	R Road Infrastructure CRF	-	-	-	-	477,000	-	-
			Offset by Developer Fees	-	-	-	-	23,000	-	-
13	Admin/Engineering	Turkey Hill & Baboosic Intersection (\$175,000)	R Road Infrastructure CRF	-	-	-	-	-	175,000	-
14	Admin/Engineering	Griffin Street Boat Ramp Access Improvement (\$67,000)	R Road Infrastructure CRF	-	-	-	-	-	67,000	-
15	Admin/Engineering	Seaverns Bridge Canoe Launch Ramp Access Improvement (\$50,000)	R Road Infrastructure CRF	-	-	-	-	-	50,000	-
16	Admin/Engineering	Chamberlain Bridge Rehabilitation/Sidewalk (\$636,000)	R Road Infrastructure CRF	-	-	-	200,000	-	-	-
			State Grant	-	-	-	436,000	-	-	-
17	Admin/Engineering	Sewer Line Extension Sunset Shores (\$1,318,000)	A Sewer Line Ext. CRF	868,000	-	-	-	-	-	-
			Road Infrastructure CRF	300,000	-	-	-	-	-	-
			MVD (water line) (\$260,000)	-	-	-	-	-	-	-
			Budget Pavement 8505	150,000	-	-	-	-	-	-
18	Library	Parking Lot Repaving/Walkway	R Library Maintenance CRF	-	-	45,000	-	-	-	-
19	Library	HVAC	R Library Maintenance CRF	-	-	-	-	-	-	100,000
20	Library	Sprinkler System	R Library Maintenance CRF	-	-	-	-	-	-	100,000
21	Library	New Library (place holder)	R Bond	-	-	-	-	-	-	6,000,000
22	Parks & Recreation	New Athletic Fields (place holder)	A Bond	-	-	-	-	-	-	2,000,000
TOTAL GENERAL FUND				3,928,000	2,900,000	6,972,500	4,581,000	3,920,000	1,292,000	9,650,000

Major Projects Funding Sources

Funding Source	<u>2014-15</u>	<u>2015-16</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>
CRF	1,808,000	820,000	690,500	500,000	1,081,000	492,000	850,000
Funded through Budget	665,000	675,000	675,000	675,000	675,000	675,000	675,000
Bonds	.	.	3,300,000	2,195,000	.	.	8,000,000
Developer Fees	.	.	.	.	23,000	.	.
Road Improvement (RSA261:153)	135,000	125,000	125,000	125,000	125,000	125,000	125,000
Private Donation	.	.	.	650,000	.	.	.
State Aid	1,320,000	1,280,000	2,182,000	436,000	2,016,000	.	.
User Fees/Bonds	.	.	.	.	160,000	8,920,000	1,040,000
	3,928,000	2,900,000	6,972,500	4,581,000	4,080,000	10,212,000	10,690,000

Bridge Projects

DPW Bridge Projects (2008 – 2019)				
Project	Year	Engineering & Construction (\$)	Town/NHDOT % Share	Total Town Cost
Bedford Road (near Joppa Rd.)	2008	1,719,000	20/80	343,800
Turkey Hill Road	2012	2,206,000	0/100	-
Amherst Road	2012	390,000	100 (Town)	390,000
Wire Road	2013	1,035,000	20/80	207,000
Manchester Street	2014	2,609,000	5/15/80 (Nashua 15%)	130,450
McGaw Road	2015	1,647,000	20/80	329,400
Bean Road	2016	1,570,000	20/80	314,000
Bedford Road (near Pearson Rd.)	2017	2,556,000	20/80	511,200
US Route 3 (DW)	2019	2,520,000	20/80	504,000
Total		16,252,000		2,729,850

Bridge Replacement – Bean Road

Bean Road bridge over Baboosic Brook (072/115) was constructed in 1981. The bridge is a multi-plate steel arch bridge with a span of 21 feet and a width of 27 feet.

Recently the Bean Road Bridge over the Baboosic Brooke was inspected by the NHDOT and was down graded to a posted weight limit of 10 tons due to corrosion at the water line.

NHDOT has moved this bridge up in the State Aid bridge program due to its condition. Design is expected to begin fall of 2014 with construction anticipated for 2015/2016. NHDOT will reimburse 80% of design and construction costs under the State Aid bridge program.



Bean Road looking east.



View of inlet from above.



Inside pipe arch – note corrosion at spring line.

STORMWATER DRAINAGE IMPROVEMENTS

The Public Works Department maintains a prioritized list of drainage improvement projects. The list is updated twice each year. Projects are scored based on criteria in 4 subject areas – Public Health and Safety; Private Property Impacts; Public Property Impacts; and Secondary Factors. Projects are also classified as a Highway Division project, a Contractor project, or a combination of the two.

Anticipated projects for the FY 15/16 construction season are:

- ☐ Turkey Hill Road near McQuestion
- ☐ DW Highway/Naticook Brook
- ☐ Burt Street and Valleyview Drive
- ☐ Amherst Road
- ☐ Wilson Hill Road
- ☐ Executive Park Drive
- ☐ Thornton Road West
- ☐ Town wide Basin Repairs



Roadway & Driveway Damage.



Street Flooding.



Sink Holes.

PAVING / INFRASTRUCTURE IMPROVEMENTS

The Public Works Department maintains over 475 roads totaling approximately 180 centerline miles. The Department uses a pavement management database in which physical road distresses for each road are tabulated to derive a PCI (Pavement Condition Index) for each public road. This data, along with traffic volumes, drainage/sewer projects, funding, and other factors are used to develop the paving/infrastructure improvement program for the year.

All or part of the following roads were paved during the past five years:

2015 –Baboosic Lake Road (DW Highway to O’Gara Drive),Wire Road (DW Highway to Bedford Road), Danforth, Cummings, Hassell, Hutchinson, Cowin

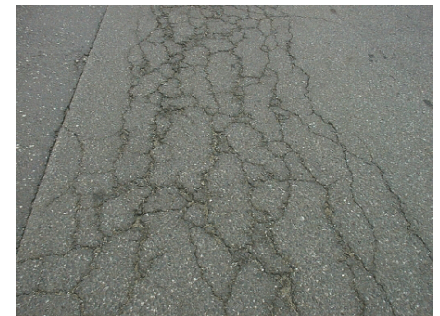
2014 – Hillside Terrace, Majestic Lane, Old Kings Road, Regal Drive, Caron Street, Herrick Street, King Street, Bryce Drive, Berry Lane, Mitchell Street, Seaverns Bridge Road, Coles Rock Road, Cramer Hill Road.



Paving Binder on Reclaimed Base.



New Lane Lines on Pavement.



Alligator Cracked Roadway.

Paving Continued

2013 – Patten Road, Wilson Hill Road, Turkey Hill Road, Henry Clay Drive, John Tyler Road, Drouin Way, Leblanc Lane, Davidson Avenue, Piedmont Avenue, Riverside Drive, Mast Road.

2012 – Reeds Ferry Way, Paige Drive, Level Street, Lyons Road, Merrill Road, Bates Road, Marty Drive, Linden Way, Stonedge Way, Lamson Drive, Sands Terrace, Winchester Drive, Westborn Drive, May Drive, Lawrence Road, McQuestion Road, Joppa Road.

2011 - DW Highway, Continental Boulevard, Amherst Road, Baboosic Lake Road, Railroad Avenue, Beaverbrook Drive, King Henry Court, Samuel J Drive, Naticook Road, Currier Road, Souhegan Drive, Birch Street, Fir Street, Hemlock Street, Tiffany Lane, Pinehaven Drive.

2010 - Palmeri Drive, Gerard Drive, Rushmore Court, Royal Court, Eden Street, Park Avenue, Forsythia Lane, DW Drive, Island Drive, Tennis Court, Liberty Lane, Bristol Street, Matthew Drive, Woodridge Road, Brewster Street, Audubon Circle, Allen Road, Hilton Drive, Butternut Lane, Hickory Lane, Baboosic Lake Road, Bean Road, Peaslee Road, Boston Post Road, Thornton Road West, Turkey Hill Road.

PAVING DW HWY

(Chamberlain Bridge to Reeds ferry Lumber) The Town of Merrimack is responsible for maintenance on the Class IV section of Daniel Webster Highway which runs from Greeley Street to Bedford Road.

In 2011, the Town rehabilitated the section from Greeley Street to the Chamberlain Bridge over the Souhegan River. In FY 15/16, Public Works plans to rehabilitate the remaining stretch from the Chamberlain Bridge to Reeds ferry Lumber where needed. The timing of the FY 15/16 work is scheduled to coordinate with the completion of other work along the corridor including traffic signal upgrades at Baboosic Lake Road and Front Street.

2011 traffic counts along the corridor range from 13,000 to 16,000 AADT.



DW Highway Paving



DW Pavement Grinding



DW Repair Prior to Paving

Minor Projects

No	Department	Year	Replace SCH	Model		Funding Source		2014/15	2015/16	2016/17
1	Communications			Radio Base Stations	R	Communication CRF		-	54,000	-
2	Communications			Communications Recorder	R	Communication CRF		20,000	-	-
3	Fire (Operations) A2 (220)	2005	100k (miles)	F450 Ambulance A2 (220)	R	Ambulance CRF		-	200,000	-
4	Fire (Operations) SCBA		EOL	Emergency Breathing Air (SCBA) Replacements	R	Fire Equip CRF		-	82,334	82,334
5	Fire (Operations)		EOL	Cardiac Defibrillator/Monitor/Transmitter	R	Fire Equip CRF		35,000	30,000	-
6	Fire Command Vehicle C3	2000		Fire Command Vehicle (104) (Asst Chief Operations)	R	Fire Equip CRF		35,000	-	-
7	Highway	2001	10 yr	6 Wheel Dump H-31	R	Highway Equip CRF		-	155,000	-
8	Highway	2003	10 yr	Loader H-16	R	Highway Equip CRF		-	150,000	-
9	Highway	2002	10 yr	6 Wheel Dump H-24	R	Highway Equip CRF		150,000	-	-
10	Highway	2002	10 yr	6 Wheel Dump H-25	R	Highway Equip CRF		150,000	-	-
11	Highway	2002	10 yr	Tractor H-41	R	Highway Equip CRF		90,000	-	-
12	Highway	2003	10 yr	Mower, Exmark	R	Budget		12,000	-	-
13	Police	Var		Patrol Vehicles	R	Budget		124,000	106,000	126,000
14	Solid Waste Disposal	1990	20yr	Stake-Body Truck	R	Solid Waste CRF		-	30,000	-
15	Technology			Licenses	R	Computer CRF		50,000	35,000	30,000

Minor Project Continued

No	Department	Year	Replace SCH	Model		Funding Source		2014/15	2015/16	2016/17
16	Solid Waste Disposal	2005	10 yr	100 CY Trailers (4)	R	Solid Waste CRF		-	-	70,000
17	Solid Waste Disposal		20 yr	Landfill Slope Mower	N	Solid Waste CRF		-	-	45,000
18	Highway	2002	10 yr	6 Wheel Dump H-21	R	Highway Equip CRF		-	-	160,000
19	Highway	2005	10 yr	Utility Vehicle H-43	R	Highway Equip CRF		-	-	125,000
20	Highway	2006	10 yr	3/4 T Pickup H-2	R	Highway Equip CRF		-	-	35,000
21	Highway	1988	25 yr	Trailer	R	Highway Equip CRF		-	-	15,000
22	Highway	2004	10 yr	Mower, Exmark	R	Budget		-	-	12,000
23	Fire (Operations) SOT3		20 yrs	Trailer Emergency Management Shelter Equipment	A	Fire Equip CRF		-	-	15,000
24	Fire (Operations) Radios		EOL	Communications (Radios)	R	Fire Equip CRF		-	-	75,000
25	Fire (Operations) F1	1988	27 yrs	Pickup (1 ton) Forestry Truck F1 (208)	R	Fire Equip CRF		-	-	40,000
26	Fire (Operations) B2	1994	20 yrs	Boat Inflatable B2 (207)	R	Fire Equip CRF		-	-	35,000
27	Fire (Building Division)BO		Old PD	Building Official Vehicle (166) (Used)	R	Budget		-	-	15,000
28	Community Development			GIS Update & Maintenance Program	R	GIS CRF		-	-	160,000
29	Assessing			Revaluation	R	Revaluation CRF		-	-	75,000
						General Fund Totals		666,000	842,334	1,115,334

Minor Projects Cont.

WWTF									
Department	Year	Replace SCH	Model	Funding Source		2014/15	2015/16	2016/17	
Wastewater Treatment	2014	25	Thorntons Ferry Pump Station grinder	R User Fees		50,000	-	-	
Wastewater Treatment			Manhole/Sewer Line Rehabilitation	R User Fees		25,000	75,000	25,000	
Wastewater Treatment			3-Sets replacement tires for 938 front end loaders	R User Fees		-	-	12,000	
Wastewater Treatment			CMOM X-Country Sewer System Easement Recovery-Phase III	A User Fees		-	-	20,000	
Wastewater Treatment	2002	15	Camera/Sewer Maintenance E-350 Cut Away truck 16' box	R User Fees		-	-	32,000	
Wastewater Treatment	2005	10	F250	R User Fees		-	35,000	-	
Wastewater Treatment	2016	20	Bobcat Toolcat, trailer and accessories-X Country Sewer Maintenance	A User Fees		-	75,000	-	
						75,000	185,000	89,000	
Cable Franchise Fees									
Department	Year	Replace SCH	Model	Funding Source		2014/15	2015/16	2016/17	
Cable Television			Other CATV Equipment	R Franchise Fees		10,000	10,000	10,000	
Cable Television			Additional Lighting	R Franchise Fees		10,000	-	-	
Cable Television			Software and Licenses	R Franchise Fees		10,000	-	-	
Cable Television			Matthew Thornton Conference room Upgrades	A Franchise Fees		10,000			
Cable Television			Town Hall Memorial Conference Room Equipment	R Franchise Fees		-	20,000	-	
Cable Television			Media Staff Hardware	R Franchise Fees		-	10,000	-	
Cable Television			Public Access Cameras and Audio Equipment	R Franchise Fees		-	5,000	-	
Cable Television			Lower Power FM Equipment	R Franchise Fees		-	-	20,000	
Cable Television			Public Access Studio Lighting	R Franchise Fees		-	-	10,000	
Cable Television			Public Access Editing Systems	R Franchise Fees		-	-	10,000	
Total CATV FUND						40,000	45,000	50,000	

MINOR PROJECTS FUNDING SOURCES

	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
Cap Reserve	530,000	736,334	962,334	1,728,234	975,000	705,000	851,000
Funded through budget	<u>136,000</u>	<u>106,000</u>	<u>153,000</u>	<u>226,000</u>	<u>246,840</u>	<u>135,795</u>	<u>154,869</u>
Genral Fund Totals	666,000	842,334	1,115,334	1,954,234	1,221,840	840,795	1,005,869
Users Fees WWTF	75,000	185,000	89,000	97,500	115,000	105,000	375,000
Media Cable Franchise fees	<u>40,000</u>	<u>45,000</u>	<u>50,000</u>	<u>50,000</u>	<u>50,000</u>	<u>50,000</u>	<u>10,000</u>
CIP Totals	781,000	1,092,334	1,254,334	2,101,734	1,386,840	995,795	1,390,869

Questions/Comments

