

DEPARTMENT of PUBLIC WORKS

Road Condition Report  
and  
Proposed Maintenance Plan

2012

**Town of North Hampton, New  
Hampshire  
Department of Public Works**

The Town of North Hampton has a network of approximately 53 miles of roadways. The North Hampton DPW currently maintains approximately 33 miles of this network. North Hampton roadway assets, which are used by residents, businesses, and visitors to the area, provide a vital contribution to the community and reflect the quality of life in the seacoast area.

The following contains a condition report as well as a proposed road maintenance plan. This plan focuses on the practical aspects of roadway maintenance as well as an estimated cost to complete the proposed work to our roadway infrastructure. This document was developed to begin discussions and planning on future road maintenance and the funding required to implement it. It can be useful in determining budgets and developing capital improvement programs.

The objective of this plan is to stop further deterioration of the road system while providing the opportunity to achieve an overall improvement in the condition of the roadways. It is a comprehensive plan which considers all town maintained roadways. Streets which are not included in this 15 year plan, which have been recently treated or are in excellent condition, shall be treated in the first 5 years of the next maintenance plan.

This maintenance program is designed to be monitored and updated at regular intervals. It can be accelerated or deferred based on need or budgetary constraints.

The following is a list of road maintenance options that are commonly used in standard maintenance programs;

- A. Bituminous patching and crackseal
- B. Bituminous shim and overlay
- C. Reclamation
- D. Complete reconstruction

Item A is handled by the DPW as routine maintenance and included in the highway budget. Ninety five percent of the maintenance projects included in this plan are bituminous overlays with the remaining five percent of the plan being reclamation projects. As you can see from the graph below, the cost escalates significantly if a roadway deteriorates from Good to Poor condition and requires reclamation to rehabilitate the roadway.

Asphalt pavement is the most significant factor in cost increases associated with a maintenance program such as this. The cost of asphalt paving has doubled in the last ten years. It's no wonder why municipal and state maintenance programs are falling behind due the fact that the paving dollar goes only half as far. Liquid asphalt and energy costs are volatile and contribute to increases of every aspect of the road maintenance program.

North Hampton Road Inventory			Updated:	4/24/12
Measurements				
STREET	Length	Width	Area (sy)	Miles
Alden Ave.	1056	30	3520	0.20
Appledore Ave.	2640	28	8213	0.50
Beaumonde Est.	2640	24	7040	0.50
Birch Rd.	3168	20	7040	0.60
Bolters Cove	1056	30	3520	0.20
Boutilier	3168	20	7040	0.60
Bradley La.	3696	24	9856	0.70
Buckskin La.	3696	24	9856	0.70
Causeway Rd.	528	20	1173	0.10
Cedar Rd.	3168	22	7744	0.60
Chapel Rd.	4652	20	10338	0.88
Cherry Rd.	2112	20	4693	0.40
Cotton Farm Rd.	3168	24	8448	0.60
Dearborn Rd.	1056	16	1877	0.20
Deer Run Rd.	3168	22	7744	0.60
Elm Rd.	2112	18	4224	0.40
Evergreen Dr.	2640	24	7040	0.50
Fern Rd.	2640	20	5867	0.50
Garrett Rd.	2640	20	5867	0.50
Glendale Rd.	1056	30	3520	0.20
Goss Rd.	5280	22	12907	1.00
Grandview Terr.	1584	20	3520	0.30
Hampshire	1056	30	3520	0.20
Highlander	3696	22	9035	0.70
Hillside	1056	30	3520	0.20
Juniper Rd.	1584	30	5280	0.30
Kimberly Dr.	1056	30	3520	0.20
Lafayette Terr.	2112	20	4693	0.40
Lovering Rd.	7920	22	19360	1.50
Maple Rd.	3168	20	7040	0.60
Meadowfox	1056	20	2347	0.20
Mill Rd.	7920	22	19360	1.50
New Rd.	2000	22	4889	0.38
North Hill Rd.	420	24	1120	0.08
North Rd. W.	6864	24	18304	1.30
North Rd. E.	3696	24	9856	0.70
Old Locke Rd.	3168	20	7040	0.60
Park Cir.	1560	24	4160	0.30
Pine Rd.	2655	22	6490	0.50



North Hampton: 15 Year Road Maintenance Plan						Updated:	2/7/12
Fiscal Years	2012-2026					Completed To Date:	\$217,200.00
STREET	Last Treated	Plan Year	Traffic/ Priority	Existing Condition	Proposed Project	Budget Amount	
Alden Ave.	1980	2024	Low	Moderate Random Cracking	1" + Overlay	\$28,000.00	
Appledore Ave.	1987	2018	Low	Moderate Random Cracking	1" + Overlay	\$57,350.00	
Beaumont Est.	2002	2015/2022	Low	Moderate Random Cracking	1" + Overlay	\$53,320.00	
Birch Rd.	2002	2015	Medium	Moderate Cracking/ Heaving	Ave. 1/1/2" Overlay	\$53,630.00	
Boiters Cove	1997	2018	Low	Moderate Random Cracking	1" + Overlay	\$25,350.00	
Boutiller La.	1999	2015/ Defer	Low	Minor Cracks	Crackseal	\$1,500.00	
Bradley La.	2009	Defer	Low	New Condition/ Overlay 2009	2027-2031	\$0.00	
Buckskin La.	2006	2014/2021	Low	Minor Cracking/ Allegation	Crackseal / 1" + Overlay	\$77,320.00	
Causeway Rd.	1997	2017	Low	Moderate Cracking and Rutting	1" + Overlay	\$6,410.00	
Cedar Rd.	2004	2018	High	Minor Cracking	1" + Overlay	\$51,800.00	
Chapel Rd.	2000	Defer/2027	Medium	Minor cracks/ good profile	1" + Overlay	\$0.00	
Cherry Rd.	2002	2012	Medium	1/2 Extensive Cracking/ Heaving	Reclaim 1/2- 1 1/2" Overlay	\$53,250.00	
Cotton Farm Rd.	2002	2012/Defer	Low	Minor Cracking	Crackseal	\$1,200.00	
Dearborn Rd.	1998	2016	Low	Extensive cracking- Good profile	1 1/2" Overlay	\$15,000.00	
Deer Run Rd.	2004	2013/2021	Low	Minor Cracking	Crackseal/ 1" + Overlay	\$33,290.00	
Elm Rd.	2002	2024	Low	Moderate Random Cracking	1" + Overlay	\$27,600.00	
Evergreen Dr.		2014/ Defer	Low	Minor Transverse Cracks	Crackseal	\$1,500.00	
Fern Rd.	2002	2013	Medium	Moderate Cracking and Rutting	1 1/2" overlay	\$41,500.00	
Garrett Rd.	1987	2026	Low	Extensive cracking- Good profile	Total Reclamation	\$106,500.00	
Glendale Rd.	2003	2024	Low	Extensive Cracking & Heaving	1" + Overlay	\$31,000.00	
Goss Rd.	1998	2015/2022	Low-Medium	Moderate Random Cracking	1" + Overlay	\$97,920.00	
Grandview Terr.	1991	2020	Low	Moderate Transverse & Random Cracking	Reclamation	\$69,500.00	
Hampshire	1980	2024	Low	Transverse and alligated cracking	1" + Overlay	\$30,000.00	
Highlander	2000	2012	Low	Moderate Random Cracking	Ave 1 1/2" Overlay	\$45,250.00	
Hillside	1991	2020	Low-Medium	Rebuilt 300' -extensive cracking	1" + Overlay	\$23,500.00	
Juniper Rd.	1995	2019	Low	Transverse and alligated cracking	1" + Overlay	\$37,000.00	
Kimberly Dr.	2003	2024	Low	Moderate Random Cracking	1" + Overlay	\$28,000.00	
Lafayette Terr.	2000	2017	Low-Medium	Moderate Random Cracking	1" + Overlay	\$32,700.00	
Lovring Rd.	2004	2016	Medium-High	Moderate cracking & Heaving/Rutting	.4 Miles-Shim and 1 1/2" Overlay	\$42,000.00	
Maple Rd.	2000	Defer/2027	Medium	Minor Cracking	1" + Overlay	\$0.00	
Meadowfox	1991	2018	Low	Extensive Cracking/ Good profile	1" + Overlay	\$23,000.00	
Mill Rd.	2006	2020/ defer	Medium-High	New: Reclaim & 3.5" Pavement	Crackseal/ 2027-2031	\$4,000.00	
New Rd.	2012	2012	Medium			\$81,500.00	
North Hill Rd.	2010	Defer	High	1" Overlay		\$0.00	

North Rd. W.	1994	2015	Medium-High	Major Cracking & Heaving	Shim & 1 1/2" overlay	\$134,800.00
North Rd. E.	1999	2013	Medium-High	Extensive cracking/ Heaving	Cold Plane 1000' Shim & 1 1/2" Overlay	\$70,000.00
Old Locke Rd.	2011	2014	Medium	Extensive cracking/ Heaving	Drainage/ 2" Ave Overlay	\$42,000.00
Park Cir.	2002	Defer	Low	Moderate cracking/ Heaving	Future Reclamation Project	\$0.00
Pine Rd.	2009	Defer	Medium	2009 Reclamation & 3.5" Pavement	2027-2031	\$0.00
Pond Path	2009	Defer	Low-Medium	2009 Reclamation @ 3.5" Pavement	2027-2031	\$0.00
Red Fox Rd.	2004	2013/2021	Low	Transverse Cracking	Crackseal/ 1" + Overlay	\$39,600.00
River Rd.	1996	2014	Low	Moderate Cracking/ Heaving	Ave. 1/1/2" Overlay	\$27,400.00
Rockrimmon	2011	2013	Low	Transverse and alligated cracking/rutting	Ave. 1/1/2" Overlay	\$65,000.00
Runnymede	2005	2012	Low	Minor Cracking	Crackseal	\$1,200.00
Runnymede	2005	2023	Low	Minor Cracking	1" + Overlay	\$44,800.00
Sea Rd.	1993	2012	Medium-High	Extensive cracking and delamination	Fabric, Patch, Ave. 1.5" Overlay	\$23,400.00
Shepherds La.	1998	2013/2025	Low	Moderate Cracking	Crackseal - 1" Overlay	\$39,200.00
Ship Rock	1989	2017	Low	Minor Cracking/ Some alligation	Ave. 1/1/2" Overlay	\$77,000.00
South Rd. W.	2001	2013/ 2016	Medium-High	Transverse/ Vertical Cracking w/ maj. heaving	1 1/2" Overlay/ Reclaim & 1 1/2" Overlay	\$199,750.00
South Rd. E.	2004	2013	Medium-High	Transverse/ Vertical Cracking w/ maj. heaving	Cold Plane 2" pavement- Shim Overlay	\$35,900.00
Spruce Meadow	2000	2019	Low	Extensive Cracking and Heaving	Reclaim and 3.5" Pavement	\$120,000.00
Squier Dr.	2002	2012/ Defer	Low	Moderate Cracking	Crackseal	\$1,400.00
Stevens Rd.	1991	2020	Low	Transverse and alligated cracking	1" + Overlay	\$59,500.00
Sylvan Rd.	1991	2018	Low	Transverse and alligated cracking	1" + Overlay	\$21,000.00
Willow Ave.	1997	2017	Low-Medium	Extensive Allegated Cracking/ Delaminating	Cold Plane & 1 1/2" Overlay	\$58,750.00
Winterberry La.	2009	2014/2025	Low	Minor Cracking & Movement	Crack seal - Ave. 1 1/2" Overlay	\$71,800.00
Woodknoll Dr.	1998	2026	defer	Minor Cracking	1" + Overlay	\$47,000.00
Woodland Rd. N.	2005	2014	Medium-High	Transverse/ Vertical Cracking w/ Minor Heaving	Ave. 1/1/2" Overlay	\$126,600.00
Woodland Rd. S.	2005	2025	Medium-High	Transverse/ Vertical Cracking	Ave 1 1/2" Overlay	\$95,000.00
Woodridge Dr.	1995	2022	Low-Medium	Moderate Cracking/ Good profile	1" + Overlay	\$23,500.00
<b>Total Plan Amount =</b>						<b>\$2,614,490.00</b>
<b>15 Year Plan:</b>						<b>Ave/ Year = \$174,299.33</b>

North Hampton 15 Year Road Maintenance Plan					Updated:	4/25/12
Yearly Breakdown						
STREET	Plan Year	Traffic/ Priority	Existing Condition	Proposed Project	Budget Amount	
Cherry Rd.	2012	Medium	1/2 Extensive Cracking/ Heaving	Reclaim/ Overlay	\$53,250.00	
Cotton Farm Rd.	2012	Low	Minor Cracking	Crackseal	\$1,200.00	
Highlander	2012	Low	Rebuilt 300' -extensive cracking	Ave 1 1/2" Overlay	\$45,250.00	
New Rd.	2012	Medium	New: Reclaim & 3.5" Pavement		\$91,500.00	
Sea Rd.	2012	Medium-High	Extensive cracking and delamination	Fabric, Patch, Ave. 1.5" Overlay	\$23,400.00	
Runnymede	2012	Low	Minor Cracking	Crackseal	\$1,200.00	
Squier Dr.	2012	Low	Moderate Cracking	Crackseal	\$1,400.00	
				Total Year 2012 =	\$217,200.00	
Fern Rd.	2013	Medium	Moderate Cracking and Rutting	1 1/2" overlay	\$41,500.00	
North Rd. E.	2013	Medium-High	Extensive cracking/ Heaving	Cold Plane 1000' Shim & 1 1/2" Overlay	\$70,000.00	
Rockrimmon	2013	Low	Transverse and alligated cracking/rutting	Ave. 1 1/2" Overlay	\$65,000.00	
Shepherds La.	2013	Low	Moderate Cracking	Crackseal	\$1,200.00	
South Rd. W. Post-95	2013	Medium-High	Transverse Cracking w/ maj. heaving	1 1/2" Overlay	\$82,750.00	
South Rd. E.	2013	Medium-High	Transverse Cracking w/ maj. heaving	Cold Plane 2" pavement- Shim Overlay	\$35,900.00	
Deer Run Rd.	2013	Low	Minor Cracking	Crackseal	\$1,600.00	
Red Fox Rd.	2013	Low	Minor Cracking	Crackseal	\$1,400.00	
				Total Year 2013 =	\$299,350.00	
River Rd.	2014	Low	Moderate Cracking/ Heaving	1" + Overlay	\$27,400.00	
Woodland Rd. N.	2014	Medium-High	TransverseCracking w/ Minor Heaving	Ave. 1 1/2" Overlay	\$126,600.00	
Evergreen Dr.	2014/ Defer	Low	Minor Transverse Cracks	Crackseal	\$1,500.00	
Buckskin La.	2014	Low	Minor Cracking/ Allegation	Crackseal	\$1,800.00	
Winterberry La.	2014	Low	Minor Cracking & Movement	Crack seal	\$1,800.00	
Old Locke Rd.	2014	Medium	Extensive cracking/ Heaving	Drainage/ 2" Ave Overlay	\$42,000.00	
				Total Year 2014 =	\$201,100.00	
North Rd. W.	2015	Medium-High	Major Cracking & Heaving	Shim & 1 1/2" overlay	\$134,800.00	
Boutlier La.	2015/ Defer	Low	Minor Cracks	Crackseal	\$1,500.00	
Goss Rd.	2015	Low	Moderate Transverse & Random Cracking	Crackseal	\$1,500.00	
Baumaonde Est.	2015	Low	Moderate Random Cracking	Crackseal	\$1,500.00	
Birch Rd.	2015	Medium	Moderate Cracking/ Heaving	Ave. 1 1/2" Overlay	\$53,630.00	
				Total Year 2015 =	\$193,230.00	
Lowering Rd.	2016	Medium-High	Moderate cracking & Heaving/Rutting	.4 Miles-Shim and 1 1/2" Overlay	\$42,000.00	
South Rd. W.-95- Exeter	2016	Medium-High	Transverse/ Vertical Cracking w/ maj. heaving	Reclaim 1000' & 1 1/2" Overlay	\$117,000.00	
Dearborn Rd.	2016	Low	Extensive cracking- Good profile	1 1/2" Overlay	\$15,000.00	



						Total Year 2016 =	\$174,000.00
Lafayette Terr.	2017	Low-Medium	Moderate Random Cracking			1" + Overlay	\$32,700.00
Causeway Rd.	2017	Low	Moderate Cracking and Rutting			1" + Overlay	\$6,410.00
Willow Ave	2017	Low-Medium	Extensive Alligated Cracking/ Delaminating			Cold Plane & 1 1/2" Overlay	\$58,750.00
Ship Rock	2017	Low	Minor Cracking/ Some alligation			Ave. 1/1/2" Overlay	\$77,000.00
						Total Year 2017 =	\$174,860.00
Cedar Rd.	2018	High	Minor Cracking			1" + Overlay	\$51,800.00
Appledore Ave.	2018	Low	Moderate Random Cracking			1" + Overlay	\$57,350.00
Bolters Cove	2018	Low	Moderate Random Cracking			1" + Overlay	\$25,350.00
Meadowfox	2018	Low	Transverse and alligated cracking			1" + Overlay	\$23,000.00
Sylvan Rd.	2018	Low	Transverse and alligated cracking			1" + Overlay	\$21,000.00
						Total Year 2018 =	\$178,500.00
Spruce Meadow	2019	Low	Extensive Cracking and Heaving			Reclaim and 3.5" Pavement	\$120,000.00
Juniper Rd.	2019	Low	Moderate Cracking/ Good profile			1" + Overlay	\$37,000.00
Woodridge Dr.	2019	Low	Moderate Cracking/ Good profile			1" + Overlay	\$23,500.00
						Total Year 2019 =	\$180,500.00
Grandview Terr.	2020	Low	Transverse and alligated cracking			Reclamation	\$69,500.00
Mill Rd	2020	Medium-High				Crackseal	\$4,000.00
Stevens Rd.	2020	Low	Transverse and alligated cracking			1" + Overlay	\$59,500.00
Hillside	2020	Low-Medium	Transverse and alligated cracking			1" + Overlay	\$23,500.00
						Total Year 2020 =	\$156,500.00
Deer Run Rd.	2021	Low	Minor Cracking			1" + Overlay	\$31,690.00
Red Fox Rd.	2021	Low	Transverse Cracking			1" + Overlay	\$38,200.00
Buckskin La.	2021	Low	Minor Cracking/ Allegation			1" + Overlay	\$75,520.00
						Total Year 2021 =	\$145,410.00
Goss Rd.	2022	Low	Mod. Transverse & Random Cracking			1" + Overlay	\$96,120.00
Beaumont Est.	2022	Low	Moderate Random Cracking			1" + Overlay	\$51,820.00
						Total Year 2022 =	\$147,940.00
Runnymede	2023	Low	Minor Cracking			Crackseal/ 1" + Overlay	\$44,800.00

2023	Medium-High	Transverse/ Vertical Cracking	Ave 1 1/2" Overlay	Total Year 2023 =	\$95,000.00
Woodland Rd. S.					\$139,800.00
Alden Ave.	Low	Moderate Random Cracking	1" + Overlay		\$28,000.00
Glendale Rd.	Low	Moderate Random Cracking	1" + Overlay		\$31,000.00
Kimberly Dr.	Low	Moderate Random Cracking	1" + Overlay		\$28,000.00
Hampshire	Low	Moderate Random Cracking	1" + Overlay		\$30,000.00
Elm Rd.	Low	Moderate Random Cracking	1" + Overlay		\$27,600.00
			Total Year 2024=		\$144,600.00
Winterberry La.	Low	Minor Cracking & Movement	Ave. 1 1/2" Overlay		\$70,000.00
Shepherds La.	Low	Moderate Cracking	1" + Overlay		\$38,000.00
			Total Year 2025=		\$108,000.00
Garrett Rd.	Low	Transverse and alligated cracking	Reclamation		\$106,500.00
Woodmoll Dr.	Low	Minor Cracking	1" + Overlay		\$47,000.00
			Total Year 2026=		\$153,500.00
			Total Plan Amount =		\$2,614,490.00