

PAVEMENT MANAGEMENT PLAN FOR THE TOWN OF SUNAPEE

Prepared by Scott Hazelton, Highway Director
Updated October 2022

PAVEMENT MANAGEMENT PLAN SUMMARY: This document is currently used for guidance to assist the Highway Department with planning for the reconstruction, rehabilitation, and/or resurfacing of paved roadways within the Town of Sunapee. The Board of Selectmen and residents of the Town approved implementation of a 15-year Pavement Management Plan in 2014, and subsequently the Highway Department's paving line-item budget was increased from \$200,000 to \$325,000 annually. The Board of Selectmen reviewed the progress of the 15-year plan in early 2018, and at that time, supported transitioning to a 10-year Pavement Management Plan which had originally been prepared and presented in 2014. Residents of the Town approved implementation of the 10-year Pavement Management Plan, and the Highway Department's operating budget increased from \$325,000 to \$400,000 annually. This 10-Year Pavement Management Plan is a culmination of the 15-Year and 10-Year Pavement Management Plans that were used for paved road improvements.

PAVEMENT MANAGEMENT PLAN INFORMATION: All paved roadways are inspected annually. Paved roadway conditions may change significantly from year to year due to the nature of the climate in which we live. When conditions warrant, the scheduled order in which the roadways are proposed to be reconstructed, rehabilitated and/or resurfaced may be revised to address the changing needs of other roads. The costs presented in this document are estimates that are based on the best available current asphalt paving and construction material prices, and these costs are subject to change without notice as most are controlled by the petroleum products industry. This plan is for the reconstruction, rehabilitation or resurfacing of the Town's paved roads, and with the most recent update is scheduled to be completed in 2026. A Pavement Resurfacing Plan will begin in 2027 and a DRAFT of that plan will be available in late 2022 pending receipt of the most current asphalt paving prices.

2014 - ROADWAYS THAT WERE RECONSTRUCTED, REHABILITATED OR RESURFACED PER THE 15-YEAR PAVEMENT MANAGEMENT PLAN

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2017 VISUAL OBSERVATION)	DATE OF LAST KNOWN OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	15-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACE OR REHABILITATION				15-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Bradford Rd	5500		22	1,665	Poor	2000	Grind & Repave 3" & 1.5" Thickened Overlay	2015	2014	13,444.4	13,444.4	2,375.6	183.3	\$184,565.99
Cross Rd	1600		22	<500	Fair	2004	1.5" Thickened Overlay	2019	2014	3,911.1	3,911.1	356.7	53.3	\$25,511.65
Lawton Rd	300		22	<500	Fair	2000	1.5" Thickened Overlay	2015	2014	733.3	733.3	129.6	10.0	\$9,201.90
Messer Rd	2000		22	<500	Poor	2000	Grind & Repave 3"	2015	2014	4,888.9	4,888.9	475.0	34.3	\$5,766.89
Nutting Rd	1030		22	<500	Poor	2000	Grind & Repave 3"	2015	2014	2,550.0	2,550.0	475.0	34.3	\$36,726.86
Nutting Rd	7170		22	<500	Poor	2000	Grind with Stone Supplement 2014 & Repave 3" in 2015	2015	2015	20,044.4	17,526.7	239.0	239.0	\$25,335.00
										40,927.8	38,165.6	3,336.9	520.0	

TOTAL QUANTITIES OF CONSTRUCTION MATERIALS

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2014

NOTE: Lower Main Street (from the west intersection with Route 11 to the SAU Office), North Road (from Lower Main Street to the upper High School entrance), North Road (from Ryder Corner to approximately 300' before Perkins Pond Road, and Jobs Creek Road (from Grandliden Road to the southwest intersection of Gamet Hill Road) received pavement leveling courses due to the poor roadway conditions that were observed following the winter months.

\$287,110.29

2015 -ROADWAYS THAT WERE RECONSTRUCTED, REHABILITATED OR RESURFACED PER THE 15-YEAR PAVEMENT MANAGEMENT PLAN

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2017 VISUAL OBSERVATION)	DATE OF LAST KNOWN OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	15-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACE OR REHABILITATION				15-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY	
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL		
Messer Road	2000		22	<500	Poor	2000	Grind & repave 3"	2015	2014	4,888.9	4,888.9	863.9	66.7	\$61,795.80	
Nutting Road	8200		22	<500	Poor	2000	Repave 3"	2015	2015	20,044.4	20,044.4	3,541.9	273.3	\$257,342.51	
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS											4,888.9	24,933.3	4,405.7	340.0	\$319,138.31

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2015

NOTE: Slagle Coach Road (from Route 103 to the top of the hill), and Jobs Creek Road from Garnet Street to Garnet Hill Road received a pavement leveling course due to the poor condition of the roadways and as a result of the annual paving bid proposal prices that were received.

2016 -ROADWAYS THAT WERE RECONSTRUCTED, REHABILITATED OR RESURFACED PER THE 15-YEAR PAVEMENT MANAGEMENT PLAN

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2017 VISUAL OBSERVATION)	DATE OF LAST KNOWN OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	15-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACE OR REHABILITATION				15-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY	
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL		
Garnet Hill Rd	6500		22	<500	Fair	2005	1.5" Thickened Overlay	2015	2016	15,888.9	15,888.9	1,449.1	216.7	\$104,360.79	
Jobs Creek Rd (Fire Station GM to top of hill)	5500		22	<500	Poor	2001 (Route 11 to top of hill)	Grind & Repave 3"	2011	2016	13,444.4	13,444.4	2,375.6	183.3	\$73,052.55	
Jobs Creek Rd (Route 11/Old Georges Mills Rd to Grandcliden Road)	4480		21	<500	Poor	2001 (Route 11 to top of hill)	1.5 Thickened Overlay	2011	2016	10,453.3	10,453.3	1,847.1	149.3	\$66,919.35	
Woodland Rd	200	2100	22	<500	Good	2016	New 3" Pavement	N/A	N/A	5,133.3	5,133.3	907.1	70.0	\$62,860.21	
Woodland Rd	200	2100	22		Fair/Good	2007	1" Overlay	2022	2016	489.9	489.9	30.7	6.7	\$2,254.16	
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS											39,786.7	45,408.9	6,609.5	626.0	\$349,447.06

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2016

NOTE: Prospect Hill Road (from the intersection with Meadowbrook Road north approximately 3,370 linear feet) to the SAU Office) and Perkins Pond Road (from the top of the hill approximately 1,200 linear feet north down the hill) received pavement leveling courses due to the poor roadway conditions that were observed following the 2016 winter months.

2017 -ROADWAYS THAT WERE RECONSTRUCTED, REHABILITATED OR RESURFACED PER THE 15-YEAR PAVEMENT MANAGEMENT PLAN

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2017 VISUAL OBSERVATION)	DATE OF LAST KNOWN OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	15-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACE OR REHABILITATION				15-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY	
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL		
Lower Main St	1800		28		Fair	2002	Cold Plane & 1.5" Thickened Overlay	2017	2017	5,700.0	5,700.0	536.0	40.0	\$55,534.96	
Main St	2300		22		Fair	2010	Cold Plane & 1.5" Thickened Overlay	2017	2017	8,000.0	8,000.0	684.0	60.0	\$70,339.24	
Trow Hill Rd	5200		22		Fair/Poor	1999	Grind & Repave 3"	2014	2017	12,711.1	12,711.1	2,246.1	173.3	\$178,206.36	
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS											26,411.1	26,411.1	3,466.1	273.3	\$302,080.56

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2017

NOTE: The 2018 paving projects was the first year of the 10-year Pavement Management Plan (formerly the 15-year Pavement Management Plan above). Asphalt prices increased from \$61.30 per ton in 2017 to \$64.25 per ton for 2018, which prevented the planned overlay of Chase Street. Chase Street paving has been delayed until 2020. All other paving projects that were planned for 2018 were completed between May 21st and June 6th.

NOTE: IN 2018 THE BOARD OF SELECTMEN APPROVED TRANSITIONING FROM THE 15-YEAR PAVEMENT MANAGEMENT PLAN, THAT WAS DEVELOPED IN 2013, TO THE 10-YEAR PAVEMENT MANAGEMENT PLAN WHICH WAS ALSO DEVELOPED IN 2013. THIS INCREASED THE PAVING OPERATING BUDGET FROM \$325,000 TO \$400,000 ANNUALLY AND RESULTED WITH A DECREASE IN THE OVERALL SCHEDULE THAT WAS BEING USED FOR THE ANNUAL RECONSTRUCTION, REHABILITATION, AND/OR RESURFACING OF THE TOWN'S ROADWAYS.

2018 - ROADWAYS THAT WERE RECONSTRUCTED, REHABILITATED OR RESURFACED PER THE 10-YEAR PAVEMENT MANAGEMENT PLAN

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2013 VISUAL OBSERVATION)	DATE OF LAST OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	10-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACE OR REHABILITATION					10-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL		
North Rd (Ryder Corner to Trow Hill)	8,500		22		Poor	1999 Ryder to Trow	Grind & Repave 3"	2014	2018	20,777.8	3,671.4	212.5		\$268,125.13	
North Rd (West Court to NHEC Substation)	1,100		22		Good/Poor	Unknown	1.75" Thickened Overlay	2014 to 2017	2018	0.0	2,688.9	28.2		\$18,312.36	
Perkins Pond Rd	2,900	4,900	22		Poor	1998 base/ 2002 overlay	Grind & Repave 3"	2014 to 2017	2018	7,088.9	1,252.6	72.5		\$91,477.99	
North Rd (Ryder Corner to Hill Top Drive)	715		22		Fair	Unknown	1.75 Thickened Overlay	2017	2018	0.0	1,747.8	17.9		\$11,903.03	
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS										27,866.7	32,303.3	330.4		\$389,818.51	

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2018

NOTE: Burkehaven Hill Road (from Lake Avenue to approximately 800' south of Harbor Hill road) and Stagecoach Road (from Hell's Corner Road to approximately 3,600' west) received a pavement leveling courses of asphalt due to the poor condition of the roadway that was observed during the 2016/2017 winter months and during the spring of 2017. North Road (from the NHEC sub station to Ryder Corner Road), Ryder Corner Road (from North Road approximately 2,000' north) were reconstructed due to the May 31, 2017 washouts and repaved with 2" thickness of 3/4" base material. Perkins Pond Road was reconstructed due to the May 31, 2017 washouts and patched with 2" thickness of 3/4" base material.

2019 - ROADWAYS THAT WERE RECONSTRUCTED, REHABILITATED OR RESURFACED PER THE 10-YEAR PAVEMENT MANAGEMENT PLAN

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2013 VISUAL OBSERVATION)	DATE OF LAST OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	10-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACE OR REHABILITATION					10-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL		
Burkehaven Hill Road (#109/108 to new pavement from 2013)	600		21		Poor	Unknown	Grind & Repave 3"	2017	2019	1,400.0	247.4	20.0		\$19,303.03	
Burkehaven Hill Road (Lake Avenue to Burkehaven Lane)	780		20		Poor	Unknown	Grind & Repave 3"	2017	2019	1,688.9	298.4	25.3		\$23,313.48	
Stagecoach Rd (Route 103B to Youngs Hill Road)	5,800	2,300	21		Fair/Poor	Unknown	Grind & Repave 3"	2014	2019	13,533.3	2,391.3	193.3		\$186,595.93	
Stagecoach Ln	700		21		Fair	2006	1.5" Thickened Overlay	2021	2019	1,633.3	139.7	23.3		\$10,403.84	
Paradise Rd	600		22		Fair/Poor	Unknown	1.5" Thickened Overlay	2022	2019	1,466.7	125.4	20.0		\$9,320.68	
Pochelon St	300		21		Poor	2001	1.75 Thickened Overlay	2016	2019	700.0	71.8	10.0		\$5,281.49	
Prospect Hill Rd (Main Street to Antique Barn)	5,940		21.5		Fair	2007/2014	1.5" Thickened Overlay	2016	2019	14,190.0	1,213.2	263.3		\$91,757.86	
Prospect Hill Rd (Antique Barn to Town Line)	1,700		21		Fair/Poor	2001	Grind & Repave 3"	2017	2019	3,966.7	700.9	263.3		\$59,368.78	
Lake Avenue GM (First 300')	300		22		Poor	2004	1" Paver Shim		2019	0.0	733.3	46.0	0.0	\$3,284.87	
Otter Hill Road (First 200')	200		22		Poor	2004	1" Paver Shim		2019	0.0	488.9	30.7	0.0	\$2,189.91	
John Avery Lane (First 200')	200		22		Poor	2004	1" Paver Shim		2019	488.9	30.7	0.0		\$2,189.91	
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS										20,588.9	40,290.0	5,295.5	818.7	\$413,009.80	

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2019

NOTE: Granite Ridge Road was overlaid with 1.25" of pavement and funded by Bob Bell in accordance with his subdivision approval. Paradise Road and Pochelon Street received an average of 2.25" for their thickened overlays. Prospect Hill Road received an average of 1.75" on the section of roadway that received the thickened overlay.

2020 -ROADWAYS TO BE RECONSTRUCTED, REHABILITATED OR RESURFACED PER THE 10-YEAR PAVEMENT MANAGEMENT PLAN

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2013 VISUAL OBSERVATION)	DATE OF LAST OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	10-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACING OR REHABILITATION				10-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS SHOULDER ASPHALT	TONS SHOULDER GRAVEL	
Winn Hill Rd (Value engineered to decrease construction costs)	1380	2000	21		Poor	2002/2006	Grind, Monthly Elevation, Reconstruct Drainage & Repave 3"	2017 to 2021	2020	7,000.0	3,500.0	660.0	100.0	\$314,081.00
Chase Street	1300		22		Fair	Unknown	1" Overlay	2019	2020	3,177.8	199.2	43.3		\$15,622.82
Dowd Ln	1200		22		Fair/Good	Unknown	1.5" Thickened Overlay	2027	2020	2,933.3	267.5	40.0		\$20,393.45
Orchard Circle	300		20		Fair/Good	Unknown	1.5" Thickened Overlay	2028	2020	666.7	60.8	10.0		\$4,656.69
Sargent Rd	2000	2000	22		Good	2012	1" Overlay	2027	2020	4,888.9	306.5	66.7		\$24,173.05
Youngs Hill Road	7500		21		Fair/Poor	2006	Grind in 2020, Repave 3" in 2021	2021	2020	17,500.0	0.0	0.0	0.0	\$21,875.00
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS										24,500.0	15,166.7	1,494.1	260.0	\$400,802.02

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2020

NOTE: The Winn Hill Road project was value engineered in consultation with the Town's pro-qualified engineer. Value engineering efforts resulted with the elimination of the proposed water main improvements, additional structural roadway improvements, additional surface and subsurface drainage improvements, and the road being paved with 3" thickness of bituminous concrete pavement. Youngs Hill Road was grinded, graded, and most drainage improvements were installed during 2020. Remaining drainage improvements and paving of Youngs Hill Road will be completed in 2021. All other roads listed to be paved in 2020 were completed.

2021 -ROADWAYS TO BE RECONSTRUCTED, REHABILITATED OR RESURFACED PER THE 10-YEAR PAVEMENT MANAGEMENT PLAN

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2013 VISUAL OBSERVATION)	DATE OF LAST OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	10-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACING OR REHABILITATION				10-YEAR REHABILITATION OR RESURFACING TOTAL ACTUAL COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS SHOULDER ASPHALT	TONS SHOULDER GRAVEL	
Lake Ave GM	3000		22		Fair/Poor	2001	Grind & Repave 3"	2016	2021	7,333.3	7,333.3	1,295.8	200.0	\$101,917.80
Oller Hill Rd	2100		21		Fair	2008	1.5" Thickened Overlay	2023	2022	4,900.0	349.1	70.0		\$15,834.37
Pine Ridge Road	400	3200	22		Fair	2006	1" Overlay not completed	2021	2021	977.8	61.3	13.3		\$0.00
River Road	900		34		Fair/Good	2007	1.5" Overlay	2016	2021	3,400.0	310.1	30.0		\$31,844.17
Youngs Hill Road	7500	2000	22		Grinded	2006	Repave 3" in 2021	2021	2021	0.0	18,333.3	3,239.5	300.0	\$253,462.27
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS										46,333.3	58,600.0	7,384.8	990.0	\$403,058.61

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2021

NOTE: Lake Avenue in Georgis Mills was reconstructed in 2021 and included significant drainage improvements to the east end of the road. Youngs Hill Road was paved with 3" thickness of new pavement as scheduled. The Pine Ridge Road apron was not overlaid this year and will be overlaid at a later date. River Road was paved with a thickened overlay and the River Road parking lot was also overlaid this year. 203 at Oller Hill Road received a 1" overlay and will be completed in the next couple of years. The Main St. & Garnet St. intersection improvements were delayed until 2022.

2022 - ROADWAYS TO BE RECONSTRUCTED, REHABILITATED OR RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2013 VISUAL OBSERVATION)	DATE OF LAST OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	10-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACING OR REHABILITATION				10-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Birch Point Lane	700		20		Fair	2003	2.0" Thickened Overlay	2018	2022	2,000.0	1,555.6	188.2	23.3	\$16,325.71
Birch Point Road (1/2 of the loop)	900		22		Fair	2003	Grind & Repave 3"	2018	2022	2,200.0	2,200.0	388.7	30.0	\$36,175.42
Birch Point Road	1400		22		Fair	2003	2.0" Thickened Overlay	2018	2022	3,422.2	3,422.2	409.6	48.7	\$40,082.34
Jeffrey Dr	1770		22		Fair/Good	2000	2.0" Thickened Overlay	2015	2022	4,328.7	4,328.7	517.9	59.0	\$42,418.74
Lovejoy Lane	600		20		Fair	2003	2.0" Thickened Overlay	2018	2022	1,333.3	1,333.3	152.0	20.0	\$13,362.87
Main Street/Garnet Street	3000		22		Realignmt	2016	1" Overlay not completed	2021	N/A	0.0	0.0	50.0	0.0	\$0.00
Stagecoach Rd (Hells Corner to Harding Hill Rd)	5070		22	380	Poor	2017	Grind & Repave 2.5" Base	2014 to 2017	2022	7,333.3	12,393.3	1,636.7	189.0	\$168,148.77
Timothy Rd	2960		22		Fair/Good	2000	1.75" Thickened Overlay	2015	2022	7,284.4	7,284.4	871.9	98.3	\$71,416.86
Cooper St	800		20		Fair	2001	1.5" Thickened Overlay	2020	2024	1,777.8	1,777.8	162.1	26.7	\$14,452.62
Hildmes Ln	200		22		Fair/Good	2005	1.5" Thickened Overlay	2020	2026	488.9	488.9	44.6	6.7	\$3,956.47
Main St GM	1200		22		Fair/Good	2005	1.5" Thickened Overlay	2020	2023	2,833.3	2,833.3	267.5	40.0	\$23,750.83
Old Springfield Rd (Off Steady Brook Rd)	150		20		Fair	2001	1.5" Thickened Overlay	2018	2023	333.3	333.3	30.4	5.0	\$2,709.87
Pleasant Street	500		22		Fair/Poor	2005	1.5" Thickened Overlay	2020	2023	1,271.1	1,271.1	115.9	17.3	\$10,282.02
Stoney Brook Rd	2000		22		Fair	2001	1.5" Thickened Overlay	2016	2023	4,888.9	4,888.9	445.9	66.7	\$39,584.71
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS										12,955.6	32,515.6	4,413.1	447.3	\$482,677.03

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2022

NOTE: The cost of asphalt rose from \$72.50 per ft. to \$83 in between 2021 and 2022. The HiDOT provided a "one time highway payment" in the amount of \$104,500.27 in August 2022. The green highlighted roads represent the additional paving that the Highway Department was able to complete as a result of the payment. The schedules for paving in years 2023 through 2026 were updated to reflect Pro 2022 increased asphalt costs.

2023 - ROADWAYS TO BE RECONSTRUCTED, REHABILITATED OR RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2013 VISUAL OBSERVATION)	DATE OF LAST OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	10-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACING OR REHABILITATION				10-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Alpine Ct	400		22		Fair/Poor	Unknown	Grind & Repave 3"	2018	2024	877.8	877.8	172.8	13.3	\$14,855.74
Avery Rd	3300		22		Good	2012	1.5" Thickened Overlay	2022	2023	6,066.7	6,066.7	869.7	110.0	\$61,498.43
Lower Winn Hill Rd	300	100	22		Good	Unknown	1" Overlay	2028	2024	733.3	733.3	46.0	10.0	\$4,263.01
North Road (Lower Main to Ryder Corner)	3100		22		Good	2017	1" Overlay	2020	2024	7,577.8	7,577.8	475.1	103.3	\$43,431.07
Ryder Corner Road (Sewer Access Rd to Croysdon Line)	3000		22		Fair	2002	Grind & Repave 3"	2017	2023	7,333.3	7,333.3	1,285.8	100.0	\$120,584.73
Ryder Corner Road (North Road to Sewer Access Road)	2600		22		Fair	2002	1.5" Thickened Overlay	2017	2023	6,355.6	6,355.6	579.6	86.7	\$51,460.12
School St	700		22		Fair/Good	2002	1" Overlay	2017	2027	1,711.1	1,711.1	107.3	23.3	\$9,807.02
Stagecoach Rd (Hells Corner to Route 103)	6100		22	380	Poor	2017	Pave 1" Top Course	2014 to 2017	2023	14,811.1	14,811.1	834.9	203.3	\$65,481.14
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS										7,333.3	46,688.9	4,301.2	638.7	\$391,301.26

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2023 WITH 2022 ASPHALT UNIT PRICES

NOTE: The cost of asphalt rose from \$72.50 per ft. to \$83 in between 2021 and 2022. The HiDOT provided a "one time highway payment" in the amount of \$104,500.27 in August 2022. The green highlighted roads represent the additional paving that the Highway Department was able to complete as a result of the payment. The schedules for paving in years 2023 through 2026 were updated to reflect Pro 2022 increased asphalt costs.

2024 -ROADWAYS TO BE RECONSTRUCTED, REHABILITATED OR RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2013 VISUAL OBSERVATION)	DATE OF LAST OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	10-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACING OR REHABILITATION				10-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Brownis Hill Rd	1800		22		Fair/Good	2005	1.5" Thickened Overlay	2020	2024	4,400.0	401.3	60.0		\$35,626.24
Cary Farm Rd	300		22		Fair	2005	1.5" Thickened Overlay	2020	2024	733.3	66.9	10.0		\$5,937.71
Fairway Dr	4700		22		Fair/Good	2005	1.5" Thickened Overlay	2020	2024	11,486.9	1,047.8	156.7		\$93,024.07
Gardner Bay Rd	700		22		Fair/Good	2007	1" Overlay	2022	2024	1,711.1	107.3	23.3		\$9,807.02
Granlden Rd	2300		22		Good/Fair	2005	1.75" Thickened Overlay	2020	2024	5,622.2	576.8	76.7		\$50,842.16
John Avery Ln	1400		22		Fair	2008	1.5" Thickened Overlay	2023	2024	3,422.2	312.1	46.7		\$27,709.30
Old Georges Mills Rd	2400		22		Fair/Poor	Unknown	Grind & Repave 3"	2019	2024	5,866.7	1,036.6	80.0		\$96,467.76
Old Granlden Rd	900		22		Fair/Good	2005	1" Overlay	2020	2027	2,200.0	137.9	30.0		\$12,609.02
Otter Hill Road	2470		22		Poor	2004	1.5" Thickened Overlay	2027	2019	0.0	6,037.8	550.6	0.0	\$46,911.12
Seven Hearths Ln	900	400	22		Good	2012	1" Overlay	2024	2024	2,200.0	137.9	30.0		\$12,609.02
Skjor Stegge	500		22		Fair/Good	2005	1" Overlay	2027	2024	1,222.2	76.6	16.7		\$7,005.01
Sunny Ln	1400		22		Good	2007	1" Overlay	2020	2027	3,422.2	214.6	46.7		\$23,308.44
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS										5,866.7	44,904.4	4,452.0	530.0	\$421,856.90

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2024 WITH 2022 ASPHALT UNIT PRICES

2025 -ROADWAYS TO BE RECONSTRUCTED, REHABILITATED OR RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2013 VISUAL OBSERVATION)	DATE OF LAST OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	10-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACING OR REHABILITATION				10-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Jobs Creek Road	10900		22		Fair	2007 (Center section)	1.75" Thickened Overlay	2022	2025	26,644.4	2,733.7	363.3		\$240,347.65
	9980		22		Fair	Edges that were paved in 2016	1.5" Thickened Overlay	2026	2025	24,395.6	2,224.9	332.7		\$197,527.71
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS										0.0	51,040.0	4,958.6	696.0	\$438,475.36

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2025 WITH 2022 ASPHALT UNIT PRICES

2026 -ROADWAYS TO BE RECONSTRUCTED, REHABILITATED OR RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2013 VISUAL OBSERVATION)	DATE OF LAST OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	10-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACING OR REHABILITATION				10-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Burkshaven Hill Road	5925		22		Good/Fair	2003	1.75" Thickened Overlay	2018	2026	14,483.3	1,486.0	197.5		\$130,973.84
Fernwood Point Rd	300	1500	22		Fair/Good	2007	1.5" Thickened Overlay	2022	2027	733.3	66.9	10.0		\$7,064.67
Fernwood Rd	1000		22		Fair/Good	2007	1.5" Thickened Overlay	2022	2027	2,444.4	222.9	33.3		\$23,615.56
Scotts Cove Rd	600		22		Fair	2007	1" Overlay	2022	2027	1,466.7	92.0	20.0		\$9,989.33
Harbor Hill Rd	1300		22		Good/Fair	2003	1.5" Thickened Overlay	2018	2026	3,177.8	289.8	43.3		\$25,730.06
Lake Avenue	8600		22		Good/Fair	2003/2008	1.5" Overlay	2018 to 2024	2026	21,022.2	1,917.2	286.7		\$170,214.26
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS										0.0	43,327.8	4,074.8	590.8	\$367,607.71

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2026 WITH 2022 ASPHALT UNIT PRICES

2027 -ROADWAYS TO BE RECONSTRUCTED, REHABILITATED OR RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2013 VISUAL OBSERVATION)	DATE OF LAST OVERLAY OR REPAIR	RECOMMENDED REPAIR	RECOMMENDED REPAIR SCHEDULE	10-YEAR SCHEDULED REHABILITATION OR RESURFACING	CONSTRUCTION MATERIAL QUANTITIES REQUIRED FOR RESURFACING OR REHABILITATION				10-YEAR REHABILITATION OR RESURFACING TOTAL ESTIMATED COST PER ROADWAY
	PAVED	GRAVEL								SQUARE YARDS GRINDING ASPHALT	SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Angel Brook Rd	1100		20		Fair/Poor	Unknown	Grind & Repave 3"	2028	2024	2,444.4	0.0	431.9	36.7	\$39,786.02
Coventry Drive	1400		22		Fair/Good	Unknown	1" Overlay	2028	2027	3,422.2	3,422.2	214.6	46.7	\$19,614.03
Fieldstone Dr	1820		22		Fair/Good	Unknown	1" Overlay	2020	2027	3,960.0		248.3	54.0	\$26,971.20
Hamel Rd	3200		22		Good	2004	1"-5" Thickened Overlay	2019	2026	7,822.2		713.4	106.7	\$63,335.54
Lochly Rd	200	400	22		Fair	Unknown	1" Overlay	2028	2026	488.9		30.7	6.7	\$2,002.00
New Province Rd	100	2400	22		Fair	Unknown	1.5" Thickened Overlay	2028	2026	244.4		22.3	3.3	\$1,979.24
Treatment Plant Rd	1300		22		Good	Unknown	1" Overlay	2028	2027	3,177.8		199.2	43.3	\$21,643.56
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS										0.0	11,733.3	965.6	160.0	\$176,131.59

ESTIMATED COST FOR ROADWAY IMPROVEMENTS IN 2027 WITH 2022 ASPHALT UNIT PRICES

TOTAL ESTIMATED COST FOR ROADWAY RECONSTRUCTION, RESURFACING & REHABILITATION FOR 14 +/- YEAR PAVEMENT MANAGEMENT PERIOD

\$4,966,383.42

PAVEMENT RESURFACING PLAN
TOWN OF SUNAPEE

WORKING DRAFT

WORKING DRAFT

Updated by Scott Hazelton, Highway Director
October 21, 2022

PAVEMENT MANAGEMENT PLAN SUMMARY: This document shall be used as a reference to assist the Highway Department with planning and budgeting for the resurfacing of paved roadways within the Town of Sunapee. In 2027 the initial Pavement Management Plan is scheduled to be complete (**funding dependent**) and consisted of the reconstruction, rehabilitation and/or resurfacing of all paved Town-maintained roadways in Sunapee. Prior to implementing the Pavement Resurfacing Plan the Board of Selectmen shall review and approve the proposed plan and the Highway Department's paving line item budget shall be (**INSERT BUDGET**) annually to implement the plan.

PLAN DETAILS: This document will be used as a guide to plan, budget and schedule the resurfacing of roadways within the Town of Sunapee. Roadway conditions may change significantly over the course of each year. All roadways are evaluated on an annual basis. If conditions warrant, the order in which the roadways are scheduled to be resurfaced may be revised to address the changing needs of other roads. The estimated construction material costs in this plan are as follows: Asphalt = \$100/ton, Emulsion = \$0.20/SY, Shoulder Gravel = \$25/ton, and these unit cost estimates will be revised as updated prices become available.

2028 - ROADWAYS TO BE RESURFACED & ESTIMATED COSTS

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2027 VISUAL OBSERVATION)	DATE OF LAST IMPROVEMENT	RECOMMENDED REPAIR	SCHEDULED RESURFACING	CONSTRUCTION MATERIAL QUANTITIES FOR RESURFACING			RESURFACING COST PER ROADWAY
	PAVED	GRAVEL							SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Bradford Rd	5500		22	1,865	Good	2014	Shim & 1" Overlay	2028	13,444.4	1,149.5	183.3	\$122,222.22
Cross Rd	1600		22	<500	Good	2014	1" Overlay	2028	3,911.1	245.2	53.3	\$26,638.22
Jeffrey Dr	1770		22	<500	Good	2022	1" Overlay	2028	4,326.7	271.3	59.0	\$29,488.53
Lawton Rd	300		22	<500	Good	2014	1" Overlay	2028	733.3	46.0	10.0	\$4,994.67
Messer Rd	2000		22	<500	Good	2014	1" Overlay	2028	4,886.9	306.5	66.7	\$33,297.78
Nutting Rd	8200		22	<500	Good	2015	1" Overlay	2028	20,044.4	1,256.8	273.3	\$136,520.89
Timothy Rd	2980		22	<500	Good	2022	1" Overlay	2028	7,284.4	456.7	99.3	\$49,613.69
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST									54,833.3	3,732.0	745.0	\$402,756.00
ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR)												\$4,000.00
ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 5% OF RESURFACING COST												\$20,137.80
CONSTRUCTION CONTINGENCY @ 2.5%												\$10,068.90
TOTAL ESTIMATED PROJECT COST FOR 2028												\$436,962.70

2029 -ROADWAYS TO BE RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2027 VISUAL OBSERVATION)	DATE OF LAST IMPROVEMENT	RECOMMENDED REPAIR	SCHEDULED RESURFACING	CONSTRUCTION MATERIAL QUANTITIES FOR RESURFACING			REQUIRED TONS SHOULDER GRAVEL	RESURFACING COST PER ROADWAY
	PAVED	GRAVEL							SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL		
Alpine Ct	400		22		Good	2022	1" Overlay	2029	977.8	61.3	13.3	\$6,659.56	
Beech St	750		22		Good	2013	1" Overlay	2029	1,833.3	115.0	25.0	\$12,486.67	
Chase Street	1300		22		Good	2020	1" Overlay	2029	3,177.8	199.2	43.3	\$21,643.56	
Central St	1500		22		Good	2013	1" Overlay	2029	3,666.7	229.9	50.0	\$24,973.33	
Dewey Beach Rd	600		22		Good	2013	1" Overlay	2029	1,466.7	92.0	20.0	\$9,989.33	
Elm St	350		22		Good	2013	1" Overlay	2029	855.6	53.6	11.7	\$5,827.11	
Garnet St	4400		22		Good	2013	1" Overlay	2029	10,755.6	674.4	146.7	\$73,255.11	
High St	1500		22		Good	2013	1" Overlay	2029	3,666.7	229.9	50.0	\$24,973.33	
Lower Main St	1800		28		Good	2017	1" Overlay	2029	5,600.0	351.1	60.0	\$37,732.00	
Lower Winn Hill Rd	300	100	22		Good	2024	1" Overlay	2029	733.3	46.0	10.0	\$4,994.67	
Main St	2300		22		Good	2017	1" Overlay	2029	5,622.2	352.5	76.7	\$38,292.44	
Maple Ct	300		22		Good	2013	1" Overlay	2029	733.3	46.0	10.0	\$4,994.67	
Maple St	1900		22		Good	2013	1" Overlay	2029	4,644.4	291.2	63.3	\$31,632.89	
Old Georges Mills Rd	2400		22		Good	2022	1" Overlay	2029	5,866.7	367.8	80.0	\$39,957.33	
Pleasant Place	400		22		Fair	2018	1" Overlay	2029	977.8	61.3	27.6	\$7,015.11	
School Street	500		22		Fair/Good	2005	1" Overlay	2029	1,222.2	76.6	34.4	\$8,768.89	
River Road	900		20		Good	2020	1" Overlay	2029	2,000.0	125.4	30.0	\$13,690.00	
Saville Lane	400		21		Good	2016	1" Overlay	2029	933.3	58.5	13.3	\$6,372.00	
									54,733.3	3,431.8	765.3	\$373,258.00	
									TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST				
ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR)													
ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 5% OF RESURFACING COST													
CONSTRUCTION CONTINGENCY @ 2.5%													
TOTAL ESTIMATED PROJECT COST FOR 2029													
\$4,000.00													
\$18,662.90													
\$9,331.45													
\$405,252.35													

2030 -ROADWAYS TO BE RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2027 VISUAL OBSERVATION)	DATE OF LAST IMPROVEMENT	RECOMMENDED REPAIR	SCHEDULED RESURFACING	CONSTRUCTION MATERIAL QUANTITIES FOR RESURFACING			REQUIRED TONS SHOULDER GRAVEL	RESURFACING COST PER ROADWAY
	PAVED	GRAVEL							SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL		
Covenry Drive	1400		22		Good	2026	1" Overlay	2030	3,422.2	214.6	46.7	\$23,308.44	
Fieldstone Dr	1620		22		Fair/Good	Unknown	1" Overlay	2030	3,960.0	248.3	54.0	\$26,971.20	
North Rd (Lower Main St. to Trow Hill Rd.)	11,600		22		Good	2018	1" Overlay	2030	28,355.6	1,777.9	386.7	\$193,127.11	
Perkins Pond Rd	2900	4900	22		Good	2018	1" Overlay	2030	7,088.9	444.5	96.7	\$48,281.78	
Trow Hill Rd	5200		22		Good	2017	1" Overlay	2030	12,711.1	797.0	173.3	\$86,574.22	
									55,537.8	3,482.2	757.3	\$378,262.76	
									TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST				
ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR)													
ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 5% OF RESURFACING COST													
CONSTRUCTION CONTINGENCY @ 2.5%													
TOTAL ESTIMATED PROJECT COST FOR 2030													
\$4,000.00													
\$18,913.14													
\$9,456.57													
\$410,632.46													

2031 -ROADWAYS TO BE RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2027 VISUAL OBSERVATION)	DATE OF LAST IMPROVEMENT	RECOMMENDED REPAIR	SCHEDULED RESURFACING	CONSTRUCTION MATERIAL QUANTITIES FOR RESURFACING			RESURFACING COST PER ROADWAY
	PAVED	GRAVEL							SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Stagcoach Ln	700		21		Good	2019	1" Overlay	2031	1,633.3	102.4	23.3	\$11,151.00
Stagcoach Rd	11900	2300	21		Good	2019	1" Overlay	2031	27,766.7	1,741.0	396.7	\$189,567.00
Pine Ridge Road	400	3200	22		Good	2021	1" Overlay	2031	977.8	61.3	13.3	\$6,659.56
Youngs Hill Road	7500		21		Good	2021	1" Overlay	2031	17,500.0	1,097.3	250.0	\$119,475.00
Winn Hill Rd	3600		21		Good	2020	1" Overlay	2031	8,400.0	526.7	120.0	\$57,348.00
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST									56,277.8	3,528.6	803.3	\$384,200.56
ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR)												\$4,000.00
ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 5% OF RESURFACING COST												\$19,210.03
CONSTRUCTION CONTINGENCY @ 2.5%												\$9,605.01
TOTAL ESTIMATED PROJECT COST FOR 2031												\$417,015.60

2032 -ROADWAYS TO BE RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2027 VISUAL OBSERVATION)	DATE OF LAST IMPROVEMENT	RECOMMENDED REPAIR	SCHEDULED RESURFACING	CONSTRUCTION MATERIAL QUANTITIES FOR RESURFACING			RESURFACING COST PER ROADWAY
	PAVED	GRAVEL							SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Cooper St	800		20		Good	2022	1" Overlay	2032	1,777.8	111.5	26.7	\$12,168.89
Granite Ridge Rd.	1500		22		Good	2019	1" Overlay	2032	3,666.7	229.9	50.0	\$24,973.33
Holmes Ln	200		22		Good	2026	1" Overlay	2032	488.9	30.7	6.7	\$3,329.78
John Avery Ln	1400		22		Good	2022	1" Overlay	2032	3,422.2	214.6	46.7	\$23,306.44
Lake Ave GM	3000		22		Good	2021	1" Overlay	2032	7,333.3	459.8	100.0	\$49,946.67
Main St GM	1200		22		Good	2026	1" Overlay	2032	2,933.3	183.9	40.0	\$19,978.67
Oak Ridge Road (Apron)	200		22		Good	2012	1" Overlay	2032	488.9	30.7	6.7	\$3,329.78
Old Springfield Rd	150		20		Good	2023	1" Overlay	2032	333.3	20.9	5.0	\$2,281.67
Otter Hill Rd	2100		21		Good	2022	1" Overlay	2032	4,900.0	307.2	70.0	\$35,453.00
Pleasant St	500		22		Good	2026	1" Overlay	2032	1,222.2	76.6	16.7	\$8,324.44
Pocheleon St	300		21		Good	2019	1" Overlay	2032	700.0	43.9	10.0	\$4,779.00
Prospect Hill Rd	7640		21.5		Good	2019	1" Overlay	2032	18,251.1	1,144.3	254.7	\$124,451.36
Stanley Brook Rd	2000		22		Good	2023	1" Overlay	2032	4,888.9	306.5	66.7	\$33,297.79
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST									50,406.7	3,160.5	699.7	\$343,622.80
ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR)												\$4,000.00
ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 5% OF RESURFACING COST												\$17,181.14
CONSTRUCTION CONTINGENCY @ 2.5%												\$8,590.57
TOTAL ESTIMATED PROJECT COST FOR 2032												\$373,394.51

2023 -ROADWAYS TO TO BE RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2027 VISUAL OBSERVATION)	DATE OF LAST IMPROVEMENT	RECOMMENDED REPAIR	SCHEDULED RESURFACING	CONSTRUCTION MATERIAL QUANTITIES FOR RESURFACING			REQUIRED TONS SHOULDER GRAVEL	RESURFACING COST PER ROADWAY
	PAVED	GRAVEL							SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL		
Angel Brook Rd	750		20		Good	2024	1" Overlay	2033	1,666.7	104.5	25.0	\$11,406.33	
Avery Rd	3300		22		Good	2024	1" Overlay	2033	8,066.7	505.8	110.0	\$54,941.33	
Dowd Ln	1200		22		Good	2021	1" Overlay	2033	2,933.3	183.9	40.0	\$19,976.67	
Garnet Hill Rd	6500		22	<500	Good	2016	1" Overlay	2033	15,888.9	986.2	216.7	\$108,217.78	
Paradise Rd	600		22		Good	2019	1" Overlay	2033	1,466.7	92.0	20.0	\$9,989.33	
Post Office Rd	700		22		Good	2013	1" Overlay	2033	1,711.1	107.3	23.3	\$11,654.22	
Riverside Dr	500	200	22		Good	2013	1" Overlay	2033	1,222.2	76.6	16.7	\$8,324.44	
Sleeper Rd	900	3400	22		Good	2013	1" Overlay	2033	2,200.0	137.9	30.0	\$14,984.00	
Orchard Circle	300		20		Good	2021	1" Overlay	2033	666.7	41.8	10.0	\$4,563.33	
Ryder Corner Road	5600		22		Good	2023	1" Overlay	2033	13,688.9	858.3	186.7	\$93,233.78	
Sargent Rd	2000		22		Good	2021	1" Overlay	2033	4,888.9	306.5	66.7	\$33,297.78	
Treatment Plant Rd	1300		22		Good	2026	1" Overlay	2033	3,177.8	199.2	43.3	\$21,643.56	
									57,577.8	3,610.1	788.3	\$392,236.56	

TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST

ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR) \$4,000.00
 ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 10% OF RESURFACING COST \$39,223.66
 CONSTRUCTION CONTINGENCY @ 5% \$19,611.83
TOTAL ESTIMATED PROJECT COST FOR 2023 \$392,236.56

2024 -ROADWAYS TO BE RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2027 VISUAL OBSERVATION)	DATE OF LAST IMPROVEMENT	RECOMMENDED REPAIR	SCHEDULED RESURFACING	CONSTRUCTION MATERIAL QUANTITIES FOR RESURFACING			REQUIRED TONS SHOULDER GRAVEL	RESURFACING COST PER ROADWAY
	PAVED	GRAVEL							SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL		
Birch Point Lane	700		20		Good	2022	1" Overlay	2034	1,555.6	97.5	23.3	\$10,647.78	
Birch Point Road	2300		22		Good	2022	1" Overlay	2034	5,622.2	352.5	76.7	\$36,292.44	
Burkehaven Hill Road	5925		22		Good	2019	1" Overlay	2034	14,483.3	908.1	197.5	\$98,644.67	
Harbor Hill Rd	1300		22		Good	2024	1" Overlay	2034	3,177.8	199.2	43.3	\$21,643.56	
Lake Avenue	8600		22		Good/Fair	2024	1" Overlay	2034	21,022.2	1,318.1	286.7	\$143,180.44	
Loveloy Lane	600		20		Good	2022	1" Overlay	2034	1,333.3	83.6	20.0	\$9,126.67	
									47,194.4	2,959.1	647.5	\$321,535.56	

TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST

ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR) \$4,000.00
 ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 10% OF RESURFACING COST \$32,153.56
 CONSTRUCTION CONTINGENCY @ 5% \$16,076.78
TOTAL ESTIMATED PROJECT COST FOR 2024 \$373,765.89

2035 -ROADWAYS TO TO BE RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2027 VISUAL OBSERVATION)	DATE OF LAST IMPROVEMENT	RECOMMENDED REPAIR	SCHEDULED RESURFACING	CONSTRUCTION MATERIAL QUANTITIES FOR RESURFACING			RESURFACING COST PER ROADWAY
	PAVED	GRAVEL							SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Jobs Creek Rd	20880		22	<500	Good	2025	1" Overlay	2035	51,040.0	3,200.2	696.0	\$347,628.80
Woodland Rd	2100		22	<500	Good	2016	1" Overlay	2035	5,133.3	321.9	70.0	\$94,962.67
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST									132,616.7	9,569.1	2,089.2	\$382,591.47
ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR)												
ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 10% OF RESURFACING COST												
CONSTRUCTION CONTINGENCY @ 5%												
TOTAL ESTIMATED PROJECT COST FOR 2035												

TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST
 ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR) \$4,000.00
 ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 10% OF RESURFACING COST \$38,259.15
 CONSTRUCTION CONTINGENCY @ 5% \$19,129.57
TOTAL ESTIMATED PROJECT COST FOR 2035 \$443,980.19

2036 -ROADWAYS TO TO BE RESURFACED

ROAD NAME	ROAD SURFACE & LENGTH (ft)		AVERAGE ROADWAY WIDTH (ft)	AVERAGE DAILY TRAFFIC COUNT (ADT)	EXISTING ROADWAY CONDITION (BASED ON 2027 VISUAL OBSERVATION)	DATE OF LAST IMPROVEMENT	RECOMMENDED REPAIR	SCHEDULED RESURFACING	CONSTRUCTION MATERIAL QUANTITIES FOR RESURFACING			RESURFACING COST PER ROADWAY
	PAVED	GRAVEL							SQUARE YARDS ASPHALT EMULSION	TONS ASPHALT	TONS SHOULDER GRAVEL	
Browns Hill Rd	1800		22		Good	2026	1" Overlay	2036	4,400.0	275.9	60.0	\$29,968.00
Cary Farm Rd	300		22		Good	2026	1" Overlay	2036	733.3	46.0	10.0	\$4,994.67
Fairway Dr	4700		22		Good	2026	1" Overlay	2036	11,488.9	720.4	156.7	\$78,249.78
Fernwood Point Rd	300	1900	22		Fair/Good	2007	Shim & 1" Overlay	2036	733.3	66.9	10.0	\$7,084.67
Fernwood Rd	1000		22		Fair/Good	2007	Shim & 1" Overlay	2036	2,444.4	222.9	33.3	\$23,615.56
Gardner Bay Rd	700		22		Good	2026	1" Overlay	2036	1,711.1	107.3	23.3	\$11,654.22
Granlden Rd	2300		22		Good	2026	1" Overlay	2036	5,622.2	352.5	76.7	\$38,292.44
Granite Ridge Road	1550		21		Good	2019	1" Overlay	2036	3,616.7	226.8	51.7	\$24,691.50
Hamel Rd	3200		22		Good	2026	1" Overlay	2036	7,822.2	490.5	106.7	\$53,276.44
Lochly Rd	200	400	22		Good	2026	1" Overlay	2036	488.9	30.7	6.7	\$3,329.78
New Province Rd	100	2400	22		Good	2026	1" Overlay	2036	244.4	15.3	3.3	\$1,664.89
Skijor Steppe	500		22		Good	2026	1" Overlay	2036	1,222.2	76.6	16.7	\$8,324.44
Seven Hearths Ln	900	400	22		Good	2026	1" Overlay	2036	2,200.0	137.9	30.0	\$14,984.00
Sunny Ln	1400		22		Good	2026	1" Overlay	2036	3,422.2	214.6	46.7	\$23,308.44
TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST									46,150.0	2,984.2	631.7	\$323,438.83
ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR)												
ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 10% OF RESURFACING COST												
CONSTRUCTION CONTINGENCY @ 5%												
TOTAL ESTIMATED PROJECT COST FOR 2036												

TOTAL QUANTITIES OF CONSTRUCTION MATERIALS & ESTIMATED CONSTRUCTION COST
 ESTIMATED COST FOR TRAFFIC CONTROL (ASSUME 2-FLAGGERS for 40 Hours @ \$50/HOUR) \$4,000.00
 ESTIMATED COST FOR MISCELLANEOUS PAVEMENT SHIMMING AND/OR CRACK SEALING @ 10% OF RESURFACING COST \$32,343.88
 CONSTRUCTION CONTINGENCY @ 5% \$16,171.94
TOTAL ESTIMATED PROJECT COST FOR 2036 \$375,954.66

TOTAL ESTIMATED COST FOR RESURFACING IMPROVEMENTS TO ALL PAVED ROADS \$3,629,194.91