



**TOWN OF UXBRIDGE**  
 MASSACHUSETTS  
*Department of Public Works*

**BENN S. SHERMAN, P.E.**  
 Director of Public Works

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**MEMORANDUM**

**DATE:** June 13, 2016

**TO:** David Genereux, Town Manager

**FROM:** Benn S. Sherman, P.E., Director of Public Works 

**RE:** **Recommended Pavement Management Plan FY2016-Spring**

As part of the Town’s ongoing pavement management plan, please find this recommended FY2016-Spring pavement improvements. This is a continuation of the paving program started at the beginning of FY2016. Our contractor, Bevilacqua Asphalt, has elected to extend their contract through FY 2017 and hold hot mix asphalt pricing. We have included a summary listing of streets and a map depicting the proposed road improvements for this year.

The recommended improvements are based on a funding level of **\$514,000** in Chapter 90 funding and **\$0** in local road funding. This funding level proposes utilizing uncommitted Chapter 90 funds from last year, as well as, FY2017 Chapter 90 funds released by the Governor in April 2016. In addition, although we are actively coordinating with public and private utilities, adjustments to the plan may be necessary to accommodate future utility projects.

Table 1 below summarizes the proposed FY2016-Spring Road Improvements. The recommended improvements proposed in this document are associated with asphalt pavement **only**. Changes or improvements to sidewalks, curbing, drainage, guardrail, and/or geometric changes are not included in this plan in addition to associated police details. However, if during the design process these improvements are found to be necessary or desirable we will work to incorporate those items with the available budget(s). As you can imagine, these considerations typically involve a significant increase in the construction costs and will be reviewed accordingly.

Table 1 – FY2016 (Spring 2016) Proposed Road Improvements

Repair Type	Length (feet)	Cost
Heavy Hot Mix Overlay	4783	\$83,000
Heavy Hot Mix Asphalt Leveling	3728	\$69,000
Reclamation	6615	\$312,000
Routine Maintenance	TBD	\$50,000
<b>Totals</b>		<b>\$514,000</b>

This spring, the DPW engaged our consultant and perform a system review and update to the pavement management program. The overall road surface rating (RSR) for the Town dropped to 67 from a previous rating of 68. As indicated in the last system update, our roadway network is trending down due to the lack of roadway funding required to increase the rating. As has been the case in past presentations to the Board of Selectmen, it has been estimated that a minimum of matching funds from the Town would be required to realize a positive trend in the road surface rating (RSR, i.e. improve the average road surface rating of the entire system). Based on information available through the Town’s pavement management system, the current backlog of needed repairs throughout Town totals **\$16,569,494**.



A complete listing of all the work is attached along with a map illustrating the streets. Also, included are system prints from the pavement management system showing the system wide summary of roads and roadway repair backlog summary. If you have any questions or require additional information, please don't hesitate to contact this office.

Attachments: FY 2016-Spring Pavement Management Program  
Road Surface Ratings & Repair Categories  
Roadway Repair Backlog Summary-Accepted  
Roadway Repair Backlog Summary-Functional Classification

CC: Paul Morante, Highway Supervisor  
Justin Cole, Accountant



TOWN OF UXBRIDGE  
 DEPARTMENT OF PUBLIC WORKS  
 FY2016-Spring Pavement Management Program

Benn S. Sherman, P.E.  
 Director

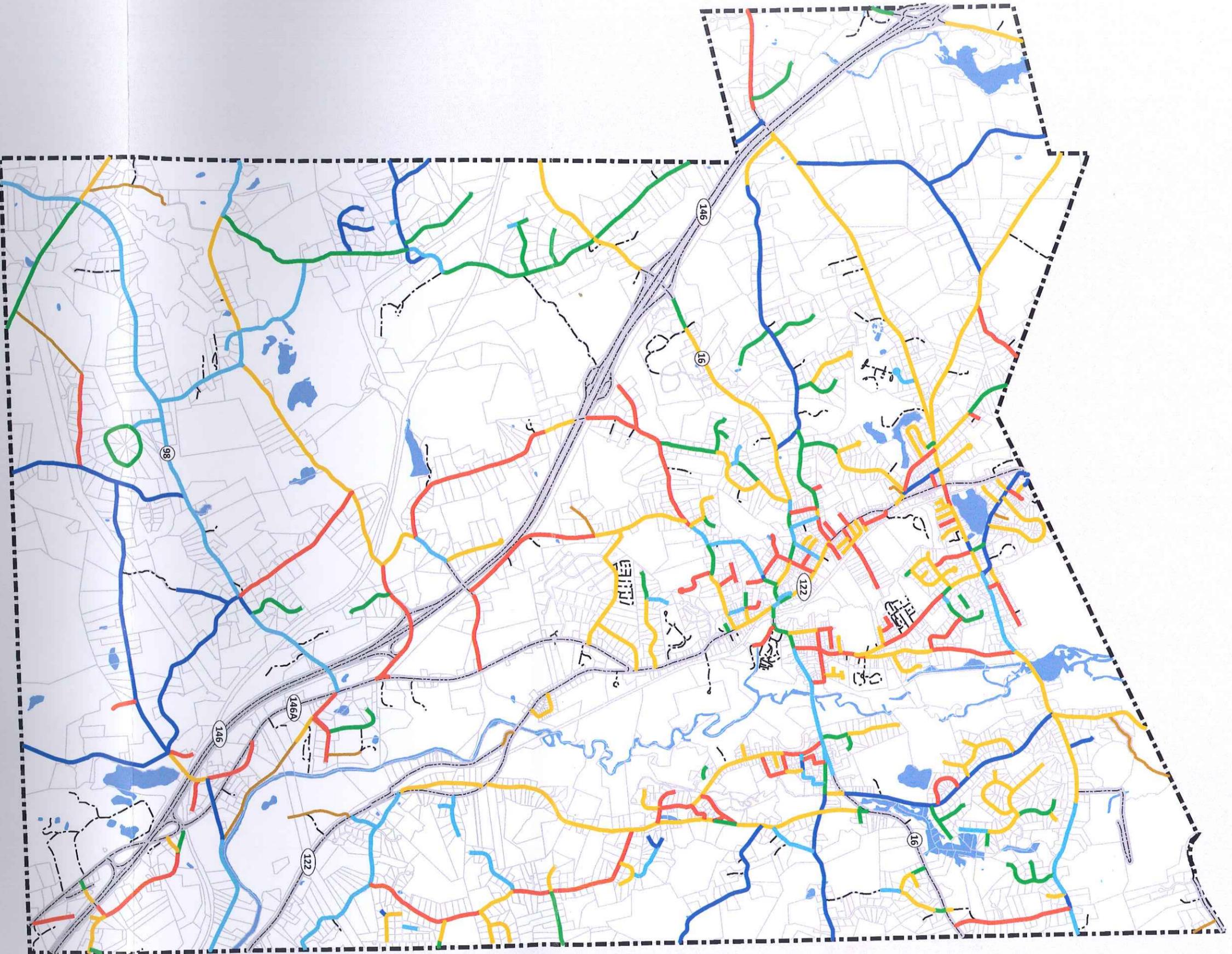
Street Name	From	To	RSR	Suggested Repair	Length (ft)	Area (sy)	Repair Cost
<b>Repair Type: Overlay</b>							
<b>South Street</b>							
SOUTH ST	ELMWOOD AVE	BURRILVILLE TL	N/A*	OVERLAY	4,783	7,971	\$ 83,000
<b>OVERLAY TOTAL</b>					<b>4,783</b>	<b>7,971</b>	<b>\$ 83,000</b>
<b>Repair Type: Leveling</b>							
<b>KING STREET</b>							
KING ST-01	GLENDALE ST	PAVEMENT CHANGE	29	LEVELING	2,941	6,536	\$ 52,000
<b>COLONEL DRIVE</b>							
COLONEL DR	ELWOOD AVE	DEAD END	18	LEVELING	787	2,098	\$ 17,000
<b>LEVELING TOTAL</b>					<b>3,728</b>	<b>8,634</b>	<b>\$ 69,000</b>
<b>Repair Type: Reclamation</b>							
<b>BUXTON STREET</b>							
BUXTON ST	QUAKER HWY	CUL DE SAC	1	RECLAMATION	1,299	2,598	\$ 83,000
<b>ERICKSON STREET</b>							
ERICKSON ST	ELWOOD AVE	DEAD END	18	RECLAMATION	795	883	\$ 16,000
<b>RICHARDSON STREET</b>							
RICHARDSON ST-01	MILL ST	LANDRY LN	32	RECLAMATION	4,521	12,055	\$ 213,000
<b>RECLAMATION TOTAL</b>					<b>6,615</b>	<b>15,536</b>	<b>\$ 312,000</b>
<b>Repair Type: Routine Maintenance</b>							
<b>STREETS TBD</b>							
TBD				ROUTINE MAINTENANCE			\$ 50,000
<b>ROUTINE MAINTENANCE TOTAL</b>					<b>0</b>	<b>0</b>	<b>\$ 50,000</b>
<b>FY2016 GRAND TOTAL</b>					<b>15,126</b>	<b>32,141</b>	<b>\$ 514,000</b>

\*SOUTH STREET WAS RECLAIMED AT THE END OF 2015 AND PAVED WITH HMA-BINDER. THIS PAVING OPERATION WILL COMPLETE THIS ROAD.

# Town of Uxbridge, Massachusetts

## Pavement Management Program

### Road Surface Ratings & Repair Categories



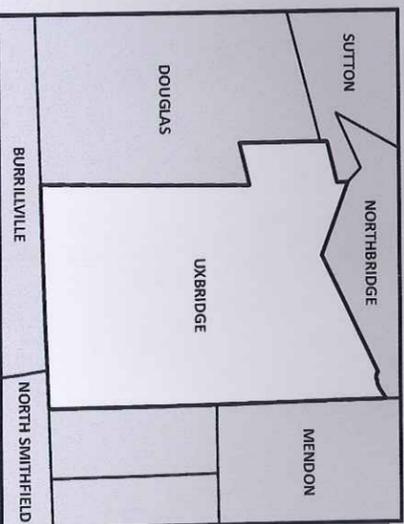
#### Repair Category

- Defer Maintenance
- Routine Maintenance
- Preventative Maintenance
- Rehabilitation
- Reconstruction/Reclamation
- Gravel

0 0.5 1 Miles

**DRAFT**  
 Date of Inspections: March 2016  
 Issue Date: April 25, 2016  
 This Map is Intended for Planning Purposes Only

**BETA**



# Town of Uxbridge, Massachusetts

## Roadway Repair Backlog Summary - Accepted

Repair Method	Length (Miles)	Square Yards	Percent Repair	Estimated Cost
Reconstruction	1.24	12,911.09	1.27%	\$580,998.89
Reclamation	18.98	244,664.83	19.42%	\$7,829,274.63
Rehabilitation	32.58	490,753.46	33.33%	\$6,870,548.50
Preventative Maintenance	14.55	198,842.68	14.88%	\$1,193,056.09
Routine Maintenance	14.30	191,230.50	14.63%	\$95,615.25
Defer Maintenance	16.10	182,235.96	16.47%	\$0.00
<b>Total:</b>	<b>97.75</b>	<b>1,320,638.53</b>	<b>100.00%</b>	<b>\$16,569,493.36</b>

Average RSR By Segment: 67.43

# Town of Uxbridge, Massachusetts

## Pavement Management Program

### Roadway Repair Backlog Summary - Functional Classification

Repair Method	Length (Miles)	Square Yards	Estimated Cost		
<b>Minor Arterial</b>					
Rehabilitation	1.36	32,021.59	\$448,302.20		
Preventative Maintenance	0.76	16,494.39	\$98,966.36		
Routine Maintenance	0.91	17,440.95	\$8,720.48		
<b>Totals for Class:</b>	<b>3.04</b>	<b>65,956.93</b>	<b>\$555,989.04</b>	<b>Avg. RSR By Segment:</b>	<b>76.47</b>
<b>Major Collector</b>					
Reclamation	0.69	11,068.82	\$354,202.24		
Rehabilitation	5.66	98,837.87	\$1,383,730.11		
Preventative Maintenance	0.21	4,604.39	\$27,626.32		
Routine Maintenance	1.26	22,560.08	\$11,280.04		
Defer Maintenance	0.15	3,121.09	\$0.00		
<b>Totals for Class:</b>	<b>7.98</b>	<b>140,192.24</b>	<b>\$1,776,838.71</b>	<b>Avg. RSR By Segment:</b>	<b>67.79</b>
<b>Minor Collector</b>					
Reclamation	1.62	25,759.73	\$824,311.25		
Rehabilitation	3.20	47,444.74	\$664,226.30		
Preventative Maintenance	1.41	14,653.00	\$87,917.98		
Routine Maintenance	3.74	49,253.20	\$24,626.60		
Defer Maintenance	0.13	2,142.19	\$0.00		
<b>Totals for Class:</b>	<b>10.11</b>	<b>139,252.85</b>	<b>\$1,601,082.14</b>	<b>Avg. RSR By Segment:</b>	<b>64.84</b>
<b>Local</b>					
Reconstruction	0.46	4,280.08	\$192,603.52		
Reclamation	13.39	162,796.94	\$5,209,502.00		
Rehabilitation	17.18	238,373.61	\$3,337,230.56		
Preventative Maintenance	7.44	95,297.64	\$571,785.84		
Routine Maintenance	6.60	75,002.37	\$37,501.19		
Defer Maintenance	14.74	163,016.71	\$0.00		
<b>Totals for Class:</b>	<b>59.81</b>	<b>738,767.34</b>	<b>\$9,348,623.11</b>	<b>Avg. RSR By Segment:</b>	<b>68.90</b>
<b>Local Cul De Sac/Dead End</b>					
Reconstruction	0.78	8,631.01	\$388,395.37		
Reclamation	3.27	45,039.35	\$1,441,259.13		
Rehabilitation	5.18	74,075.67	\$1,037,059.32		
Preventative Maintenance	4.72	67,793.27	\$406,759.59		
Routine Maintenance	1.78	26,973.90	\$13,486.95		
Defer Maintenance	1.08	13,955.98	\$0.00		
<b>Totals for Class:</b>	<b>16.81</b>	<b>236,469.17</b>	<b>\$3,286,960.36</b>	<b>Avg. RSR By Segment:</b>	<b>63.40</b>
<b>Class Totals:</b>	<b>97.75</b>	<b>1,320,638.53</b>	<b>\$16,569,493.36</b>	<b>Avg. RSR By Segment:</b>	<b>67.43</b>