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DEPARTMENT OF INFRASTRUCTURE ENGINEERING

MEMORANDUM

TO: James Kern, Town Manager
Board of Selectmen

FROM: Jason L. Mammone, P.E., Director of Engineering
Joseph M. Flanagan, Director of Public Works

DATE: January 19, 2014

SUBJECT: Recommended Pavement Improvements for FY2016-FY2018

As part of the annual pavement management program, please find an analysis of the costs associated with the FY2015 Pavement Management road improvements which were undertaken over the past construction season along with the recommended FY2016-FY2018 pavement improvements for review and consideration..

The FY2015 Recommended Pavement Improvements were presented to the Board and approved on March 6, 2014 as part of the continuing three year FY2015-FY2017 Recommended Pavement Management Improvements. A summary of the work as originally proposed and approved can be found in Table 1.

Table 1 – FY2015 Approved Road Improvements

Repair Type	Length in Feet	Cost
Reclamation	18,244	\$1,869,577.04
Mill and Overlay	2,367	\$147,271.30
Overlay	0	\$0
Preventative Maintenance	4,546	\$150,846.99
Routine Maintenance	17,187	\$43,198.22
Totals	42,344	\$2,210,893.55

Construction of the planned improvements began in April of 2014 and ended in November of 2014. The preventative maintenance work was completed by All States Asphalt, Inc., the routine maintenance work was completed by Crack-Sealing, Inc. and the reclamation and mill & overlay work was completed by T.L. Edwards, Inc. under the FY2014 Paving Contract. There were a few of adjustments to the planned FY2014 work. Nova Chip was not installed on Curve Street due to NSTAR Gas proposing utility work

along this roadway during the construction season. This road was swapped with the section of Border Street from Dale Street to Cedar Street which was scheduled for reclamation in FY2017. Due to our favorable contract prices and oversight of the contract with in-house personnel, we were able to rehabilitate more roads with the available budget and bumped up the reclamation of Alpine Street and Quincy Street and the mill & overlay of the all the approaches to the East Street Roundabout, including the roundabout itself, which were scheduled to be completed in FY2016. We also carried money over from the previous fiscal year for the reclamation of Border Street from Ashcroft Street to Dale Street which was unable to be reclaimed in FY2014 due to scheduling issues in November along with introduction of the cold weather.

Due to the extraordinary 2013-2014 winter season, the Commonwealth provided all 351 cities and towns with additional money for repairs as a result of the harsh winter through the “Winter Rapid Recovery Road Program” (WRRRP). Dedham was provided an additional \$104,162 on top of our annual Chapter 90 allotment of \$694,415. That money was utilized in the reclamation of Hill Avenue and Autumn Lane along with replacement of the existing sidewalks for those streets.

A summary of the completed work can be found below in Table 2.

Table 2 – FY2014 Completed Improvements

Repair Type	Length in Feet	Cost
Reclamation	21,186	\$1,869,910.80
Mill and Overlay	4,234	\$307,472.67
Overlay	0	\$0
Preventative Maintenance	3,860	\$128,782.98
Routine Maintenance	21,715	\$10,937.55
<i>Totals</i>	50,995	\$2,317,104.00

Based on the combined efforts of the Department of Public Works and the Engineering Department we were able to complete the FY2015 road improvements within the available budget. The Town’s FY2015 budget, which included the annual appropriation, Chapter 90 funds, WRRRP funds and money carried over from FY2014 to complete roads that were unable to be completed in FY2014 was approximately \$2,412,908 and based upon the work completed, approximately \$2,317,104 was expended. A summary of the estimated versus actual unit costs for FY2015 is shown below in Table 3.

Table 3 – FY2015 Units Costs (Estimated vs. Actual)

Repair Type	Estimated Unit Cost (per SY)	Actual Unit Cost (per SY)
Reclamation (Major Collector)	\$40.00	-
Reclamation (Minor Collector & Residential)	\$35.00	\$27.63
Mill and Overlay	\$20.00	\$18.85
Overlay	\$15.00	-
Preventative Maintenance	\$12.00	\$9.88
Routine Maintenance	\$0.75	\$0.15

Again, based upon our favorable contract prices and oversight of the contract with in-house personnel, the Town was also able to complete the wholesale sidewalk replacement for a majority of the roads that were reclaimed in FY2015. In total, the Town replaced approximately 12,267 linear feet of asphalt sidewalk and approximately 2,531 linear feet of concrete sidewalk.

The Town is now entering into our ninth year of Pavement Management and as a continuation of last year's FY2015-FY2017 Pavement Management Plan we have prepared new recommendations for FY2018.

As of December 31, 2014 our overall roadway network pavement condition index (PCI) was 83 which is up significantly from our initial PCI of 70 from eight years ago. If the proposed improvements are approved and implemented we can anticipate improving the roadway PCI to 86 by the end of FY2018. In comparison, other Town and Cities in the Commonwealth strive to achieve an overall PCI ranging from 78 to 82.

The funding scenario for the recommended FY2016 – FY2018 pavement improvements is based on the assumption of a continued local funding level of \$1.5 million per year and utilizing approximately \$500,000 from State Chapter 90 funds. As always, if the Town receives more than the assumed State Chapter 90 funding, we will utilize that money during the current construction season to rehabilitate roads indentified in the following year's program. As of 12/31/14, the Town's current backlog of repairs is \$10,984,805.66.

The recommended improvements proposed in this document are associated with asphalt pavement only. Sidewalks, curbing, drainage, and other geometric changes are not included in this proposal, however if during the design process these improvements are found to be necessary or desirable we will work to incorporate those items within the available budget(s).

In summary, the DPW and Engineering Departments are pleased to report that we have successfully completed the FY2015 Pavement Management Plan approved last year. Through the diligent efforts of both departments we believe we were able to deliver these improvements in an efficient and cost effective manner. All oversight of the design, bidding, contract administration, field engineering, and inspection was performed using in-

house resources. Through these efforts we have been able to raise the Town's PCI to 83 from the initial rating of 70 eight years ago.

The proposed work throughout Town over the course of FY2016-FY2018 is summarized in the attached table and maps. Please review the attached information and provide us with any questions or comments.

Attachment

Cc: Nancy A. Baker, Assistant Town Administrator
Nathan S. Buttermore, P.E., Infrastructure Engineer
Ronald I. Lawrence, Project Engineer

Town of Dedham - Pavement Management Road Program

Name	From	To	PCI	Length (ft)	Area (sy)	Cost	
7/1/2015							
Repair Type: Mill/Overlay							
CHICKERING ROAD	950' N OF WASHINGTON ST	450' S OF CUL-DE-SAC	94	450	1,142	\$19,995.56	
NEEDHAM STREET	200' E OF HILLSIDE RD	ROTARY	80	1,259	3,917	\$78,337.78	
NEEDHAM STREET	90' E OF CHARLESBANK RD	200' E OF HILLSIDE RD	89	715	2,462	\$49,234.89	
NEEDHAM STREET	RIVERSIDE DR	90' E OF CHARLESBANK RD	68	291	970	\$19,393.33	
NEEDHAM STREET	ROTARY	100' S OF LYNCH AV	79	435	1,352	\$27,048.00	
NEEDHAM STREET	ROTARY	ROTARY	78	242	323	\$6,461.33	
NORFOLK STREET	50' E OF PEARL ST	COURT ST	72	288	641	\$13,574.40	
				Repair Type Sum	3,680	10,806	\$214,045.29
Repair Type: Preventative Maintenance							
AMES STREET	333' S OF PLEASANT ST	654' N OF HIGH ST	84	426	1,421	\$11,524.31	
AMES STREET	654' N OF HIGH ST	HIGH ST	91	655	2,328	\$18,880.23	
COURT STREET	BATES CT	CHURCH ST	82	388	1,594	\$12,929.68	
COURT STREET	CHURCH ST	MARSH ST	83	913	3,145	\$25,506.94	
COURT STREET	HIGH ST	BATES CT	83	331	1,657	\$13,438.27	
COURT STREET	MARSH ST	WETHERBEE ST	84	748	2,659	\$21,563.23	
HIGH STREET	AMES ST	BULLARD ST	83	395	1,493	\$12,626.99	
WASHINGTON STREET	HARRIS ST	STAR LA	82	208	807	\$9,865.41	
				Repair Type Sum	4,064	15,105	\$126,335.06
Repair Type: Reclamation Minor Collector and Local							
CHESTNUT STREET	HIGH ST	MARTIN BATES ST	45	924	2,157	\$83,116.93	
CHICKERING ROAD	450' S OF CUL-DE-SAC	CUL-DE-SAC	30	554	1,372	\$43,057.78	
CHICKERING ROAD	WASHINGTON STREET	950' N OF WASHINGTON ST	29	950	2,253	\$73,888.89	
COLWELL DRIVE	GREENLODGE ST	100' N OF SCOTT CIR	43	1,852	5,143	\$197,793.21	

Town of Dedham - Pavement Management Road Program

<i>Name</i>	<i>From</i>	<i>To</i>	<i>PCI</i>	<i>Length (ft)</i>	<i>Area (sy)</i>	<i>Cost</i>
COUNTY STREET	CHESTNUT ST	BULLARD ST	40	642	1,499	\$60,082.78
DURHAM ROAD	SPRAGUE ST	DEAD END	33	1,264	3,370	\$117,964.00
FAIR OAK ROAD	CHICKERING ROAD	DEAD END	33	449	947	\$33,153.94
GREENLODGE STREET	100' S OF FLINTLOCKE LA	TRUMAN RD	44	424	941	\$36,274.06
HOOPER ROAD	LOUIS RD	TYLER RD	39	1,103	2,941	\$102,928.00
INDIAN PATH	236' S OF MAYFAIR RD	109' N OF VINCENT RD	47	159	460	\$16,096.89
INDIAN PATH	FOX MEADOW LA	236' S OF MAYFAIR RD	48	905	2,615	\$91,535.89
KIELY ROAD	62' S OF HILLCREST AVENUE	PINE STREET	40	675	1,874	\$72,239.04
KIMBALL ROAD	EAST ST	DRESSER AV	53	802	2,673	\$93,566.67
LEE TERRACE	ORCHARD ST	DEAD END	31	458	967	\$33,848.50
ORCHARD STREET	ELM ST	WILSON AV	41	806	2,148	\$82,781.57
PAUL STREET	TURNER ST	ETNA RD	38	795	2,209	\$77,311.11
PEARL STREET	HIGH ST	NORFOLK ST	41	279	807	\$31,095.76
PINE HILL ROAD	VALLEY ROAD	RIVERSIDE DRIVE	43	714	1,903	\$73,349.65
POND FARM ROAD	325' E OF CHICKERING ROA	380' E OF CHICKERING ROAD	96	55	141	\$4,919.44
POND FARM ROAD	380' E OF CHICKERING ROA	DEAD END	51	163	417	\$14,605.39
POND FARM ROAD	CHICKERING ROAD	325' E OF CHICKERING ROAD	39	325	831	\$29,069.44
ROSEMARY ROAD	1000' W OF NEEDHAM STRE	CUNNINGHAM ROAD	45	1,128	3,257	\$125,516.30
SAMOSET ROAD	RIVERSIDE DRIVE	PINE HILL ROAD	39	350	934	\$37,443.51
TAYLOR AVENUE	495' S OF DRESSER AV	ALDEN ST	42	413	1,102	\$42,383.89
TAYLOR AVENUE	CEDAR ST	DRESSER AV	41	974	2,598	\$99,924.66
TAYLOR AVENUE	DRESSER AV	495' S OF DRESSER AV	41	496	1,322	\$50,844.26
WAMPATUCK ROAD	300' N OF LOWDER ST	LOWDER ST	51	303	673	\$25,957.89
WAMPATUCK ROAD	LOWDER ST	500' N OF LOWDER ST	41	500	1,111	\$42,821.00
WORTHINGTON STREET	WASHINGTON ST	SCHOOL ST	45	560	1,182	\$45,564.79
Repair Type Sum				19,022	49,850	\$1,839,135.24

Town of Dedham - Pavement Management Road Program

<i>Name</i>	<i>From</i>	<i>To</i>	<i>PCI</i>	<i>Length (ft)</i>	<i>Area (sy)</i>	<i>Cost</i>
<i>Repair Type: Routine Maintenance</i>						
BRIDGE STREET	261' N OF FULLER STREET	PINE STREET	92	1,181	3,411	\$2,702.64
BRIDGE STREET	41' N OF FULLER ST	450' N OF COMMON STREET	89	1,253	3,619	\$2,867.19
BRIDGE STREET	COMMON STREET	BRIDGE STREET	89	462	1,541	\$1,221.07
BUSSEY STREET	95' S OF COLBURN ST	350' N OF HIGH ST	89	810	3,149	\$2,405.17
BUSSEY STREET	TOWNLINE	COLBURN ST	89	2,023	6,068	\$4,807.02
CEDAR STREET	QUINCY AV	129' E OF SPRAGUE ST	86	3,544	11,812	\$9,357.94
CEDAR STREET	RIVER ST	QUINCY AV	87	1,000	3,333	\$2,640.46
COLBURN STREET	BUSSEY ST	64' W OF BUSSEY ST	87	64	322	\$254.69
EAST STREET	EAST ST ROTARY	TOWN LINE	89	4,250	19,359	\$15,336.42
EAST STREET	WHITING AV	100' N OF GREENWOOD AV	87	4,575	15,249	\$12,080.80
ELM STREET	27' S OF ROBINWOOD RD	RUSTCRAFT RD	87	906	3,827	\$3,031.50
ELM STREET	STATE PORTION	27' S OF ROBINWOOD RD	86	1,264	5,620	\$4,451.91
GREENLODGE STREET	COLWELL DR	364' S OF COLWELL DR	87	364	1,780	\$1,409.79
HIGH STREET	MAVERICK STREET	200' E OF LINDEN PLACE	89	956	3,399	\$2,692.55
HIGH STREET	MILTON ST	80' W OF MILTON ST	89	80	622	\$475.21
MT. VERNON STREET	123' N OF WHITING AV	SANDERSON AV	86	2,390	7,966	\$6,311.07
MT. VERNON STREET	RECREATION RD	CHARLES ST	86	373	1,242	\$983.67
OAKDALE AVENUE	FAIRVIEW ST	COBBLER LANE	87	109	315	\$249.68
OAKDALE AVENUE	WALNUT ST	FAIRVIEW ST	87	688	1,910	\$1,512.91
REED STREET	PRATT AV	BORDER ST	86	1,145	3,052	\$2,418.06
ROSEMARY ROAD	CUNNINGHAM ROAD	NEEDHAM STREET (W)	86	304	879	\$695.97
RUSTCRAFT ROAD	628' W OF IVERSON WAY	CENTRAL AV	87	586	2,018	\$1,598.50
RUSTCRAFT ROAD	890' W OF CENTRAL AV	ELM ST	87	2,918	10,051	\$7,962.50
RUSTCRAFT ROAD	CENTRAL AV	890' W OF CENTRAL AV	87	890	3,066	\$2,428.58
RUSTCRAFT ROAD	EAST ST	628' W OF IVERSON WAY	92	1,238	4,265	\$3,378.74

Town of Dedham - Pavement Management Road Program

Name	From	To	PCI	Length (ft)	Area (sy)	Cost
SANDERSON AVENUE	MT VERNON ST	EAST ST	87	1,127	3,005	\$2,380.80
SANDERSON AVENUE	RIVER ST	MT VERNON ST	87	1,534	5,112	\$4,050.08
WALNUT STREET	HAZELNUT PL	150' N OF WHITING AV	87	188	543	\$414.79
WEST STREET	BURGESS LANE	NEEDHAM TOWN LINE	89	1,481	4,277	\$3,388.54
WEST STREET	COMMON STREET	965' N OF COMMON STREET	89	964	3,214	\$2,546.19
Repair Type Sum				38,664	134,025	\$106,054.44
Year Grand Total				65,430	209,787	\$2,285,570.03

7/1/2016

Repair Type: *Preventative Maintenance*

COLBURN STREET	64' W OF BUSSEY ST	CURVE ST	81	69	343	\$4,191.37
CURVE STREET	COLBURN ST	MAVERICK ST	78	1,170	3,120	\$39,657.24
GREENLodge STREET	364' S OF COLWELL DR	FOX MEADOW	84	1,024	3,412	\$44,987.19
GREENLodge STREET	STOUGHTON RD	COLWELL DR	84	616	2,326	\$30,668.00
NEEDHAM STREET	1435' E OF TOWNLINE	TOWNLINE	80	1,435	4,784	\$63,072.61
Repair Type Sum				4,313	13,985	\$182,576.41

Repair Type: *Reclamation Minor Collector and Local*

ALPENA AVENUE	VINCENT RD	WINFIELD ST	51	410	1,140	\$43,937.80
ALPENA AVENUE	WINFIELD ST	RIDGEWAY ST	46	462	1,283	\$47,548.79
BOOTH ROAD	350' S OF HIGH STREET	ROBERT ROAD	95	290	806	\$28,213.89
BOOTH ROAD	945' S OF HIGH STREET	RIDLEY ROAD	54	600	1,667	\$58,333.33
BOOTH ROAD	HIGH STREET	350' S OF HIGH STREET	80	350	972	\$34,027.78
BOOTH ROAD	ROBERT ROAD	945' S OF HIGH STREET	39	305	846	\$29,613.89
COMMONWEALTH AVENUE	100' S OF RIVERVIEW STREE	BRIDGE STREET	52	1,329	3,692	\$129,218.06
COMMONWEALTH AVENUE	145' S OF MARLBORO STRE	100' S OF RIVERVIEW ST	54	180	520	\$20,035.92
COMMONWEALTH AVENUE	MARLBORO STREET	145' S OF MARLBORO STREE	62	145	387	\$13,533.33

Town of Dedham - Pavement Management Road Program

<i>Name</i>	<i>From</i>	<i>To</i>	<i>PCI</i>	<i>Length (ft)</i>	<i>Area (sy)</i>	<i>Cost</i>
CRANBERRY LANE	INDIAN PA	VINCENT RD	47	649	1,801	\$66,776.72
FISHER ROAD	AMES STREET	MAYNARD ROAD (E)	41	816	2,175	\$83,629.48
LINDALE AVENUE	NEEDHAM STREET	MARLBORO STREET	39	709	1,891	\$72,895.06
MASSACHUSETTS AVENUE	RIVERVIEW STREET	DEAD END	34	1,728	4,607	\$161,233.33
MAYNARD ROAD	FISHER ROAD	BINGHAM AVENUE	41	1,066	2,843	\$109,338.75
METCALF STREET	WASHINGTON ST	WILLOW ST	47	360	1,039	\$38,530.94
PACELLA DRIVE	HIGHLAND ST	FAY RD	46	2,042	5,218	\$193,426.58
POPLAR STREET	TARBOX ST	479' S OF TARBOX ST	39	479	1,332	\$49,364.32
RICHARDS STREET	WASHINGTON ST	205' W OF WASHINGTON ST	47	205	524	\$19,439.28
RIDLEY ROAD	ROBERT RD	CUL DE SAC	44	460	1,597	\$50,078.00
ROBERT ROAD	BOOTH RD	CUL-DE-SAC S	44	1,236	3,380	\$115,339.39
ROBERT ROAD	CUL-DE-SAC N	BOOTH RD	60	409	1,174	\$38,136.00
SUMNER STREET	75' W OF WASHINGTON ST	LOWER EAST ST	43	266	738	\$27,359.40
TARBOX STREET	ETNA RD	DEAD END	40	860	2,389	\$88,550.89
TOWER STREET	DRESSER AV	TURNER ST	48	766	2,127	\$78,834.63
VINCENT ROAD	379' S OF CRANBERRY LA	GREENLEAF ST	62	929	2,477	\$86,685.96
WILLIS STREET	75' W OF WASHINGTON ST	LOWER EAST ST	44	339	941	\$34,865.80
WINTER STREET	BONAD RD	WILLIS ST	46	386	1,071	\$39,705.63
Repair Type Sum				17,773	48,637	\$1,758,652.95

Repair Type: *Routine Maintenance*

BINGHAM AVENUE	56' E OF CREST AVENUE	MAYNARD ROAD	91	760	2,026	\$1,669.43
BUSSEY STREET	170' N OF HIGH ST	HIGH ST	91	172	1,224	\$1,008.39
CENTRAL AVENUE	TAFT LA	258' N OF RUSTCRAFT RD	91	360	1,679	\$1,383.27
CENTRAL AVENUE	WENTWORTH ST	TAFT LA	91	985	4,376	\$3,606.46
COBBLER LANE	123' N OF RIVER ST	RIVER ST	90	123	383	\$304.46
COMMON STREET	240' N OF WEST STREET	900' N OF WEST STREET	91	980	2,524	\$2,079.82

Town of Dedham - Pavement Management Road Program

Name	From	To	PCI	Length (ft)	Area (sy)	Cost
COMMON STREET	HIGH ST	BRIDGE ST	91	409	1,452	\$1,196.77
DEPOT AVENUE	GREENWOOD AV	CEDAR ST	86	170	454	\$374.19
GAINSVILLE ROAD	38' N OF GLEN RD	GREENSBORO RD	86	377	920	\$758.33
HIGH STREET	122' S OF HARRIS ST	250' N OF EASTERN AV	91	257	1,286	\$1,059.63
HIGH STREET	150' E OF HARVARD ST	HARRIS ST	91	371	1,403	\$1,155.77
HILLCREST AVENUE	BRIDGE STREET	14' W OF KIELY RD	91	670	1,787	\$1,472.32
KIELY ROAD	BRIDGE STREET	42' N OF HILLCREST AVENUE	91	707	2,041	\$1,682.14
MILTON STREET	WALNUT ST	150' S OF MYRTLE ST	91	588	4,114	\$3,390.10
NEEDHAM STREET	100' S OF LYNCH AV	CLAY BANK RD	92	1,268	3,803	\$3,133.74
NEEDHAM STREET	CLAY BANK RD	1508' E OF TOWNLINE	92	1,114	3,341	\$2,753.27
ODYSSEY LANE	EMMITT AV	CUL DE SAC	91	380	1,494	\$1,231.14
PINE HILL ROAD	NEEDHAM STREET	VALLEY ROAD	91	568	1,514	\$1,247.95
SAVIN STREET	TURNER ST	CRANE ST	91	775	2,153	\$1,774.02
WILDWOOD DRIVE	FAIRBANKS RD	CENTRAL ST	91	588	1,568	\$1,292.34
ZOAR AVENUE	BRIDGE STREET	MORELAND AVENUE	91	714	2,062	\$1,699.05
Repair Type Sum				12,333	41,604	\$34,272.59
Year Grand Total				34,418	104,226	\$1,975,501.95

7/1/2017

Repair Type: Mill/Overlay

MARLBORO STREET	LINDALE AVENUE	MASSACHUSETTS AVENUE (63	234	677	\$14,910.91
Repair Type Sum				234	677	\$14,910.91

Repair Type: Reclamation Minor Collector and Local

ALTOONA ROAD	SHERMAN RD	TRENTON RD	56	1,091	3,152	\$121,516.34
ARDMORE ROAD	SHERMAN RD	TRENTON RD	51	858	2,289	\$88,236.27
BEACON STREET	BRIDGE STREET	COMMONWEALTH AVENUE	52	815	2,173	\$83,774.59

Town of Dedham - Pavement Management Road Program

<i>Name</i>	<i>From</i>	<i>To</i>	<i>PCI</i>	<i>Length (ft)</i>	<i>Area (sy)</i>	<i>Cost</i>
BELOIT ROAD	SHERMAN RD	TRENTON RD	58	594	1,716	\$66,142.93
COLBURN STREET	HYDE PARK ST	100' E OF BUSSEY ST	48	1,566	5,918	\$228,127.89
CRANE STREET	TURNER ST	SAVIN ST	50	693	1,926	\$74,243.42
CYNTHIA ROAD	CUL DE SAC LOOP (N)	CUL DE SAC LOOP (S)	49	1,153	3,332	\$116,621.56
FAIRFIELD STREET	BRIDGE STREET	COMMONWEALTH AVENUE	58	911	2,631	\$101,436.24
GOSHEN ROAD	TRENTON RD	LORAIN RD	51	850	2,078	\$80,119.93
HERITAGE HILL	INTERVALE RD	CUL DE SAC	38	877	2,919	\$88,674.44
HYDE PARK STREET	200' S OF BISMARCK ST	COLBURN ST	31	794	1,765	\$61,763.33
INTERVALE ROAD	LEDGEWOOD RD	FOX MEADOW LA	50	1,180	3,410	\$131,461.73
JUDITH CIRCLE	ROSEN RD	CUL DE SAC LOOP	51	624	1,802	\$63,063.00
MARLBORO STREET	MASSACHUSETTS AVENUE (LINDALE AVENUE	50	682	1,893	\$72,990.50
MYRTLE STREET	MILTON ST	WALNUT ST	53	531	1,415	\$54,557.83
RIVERVIEW STREET	BRIDGE STREET	160' S OF COMMONWEALTH	50	860	2,294	\$88,452.16
ROSEN ROAD	GREENLODGE ST	CYNTHIA RD	52	465	1,344	\$51,820.69
TARBOX STREET	CRANE ST	ETNA RD	49	643	1,787	\$68,878.36
TOWER STREET	TURNER ST	ETNA RD	51	790	2,195	\$84,618.17
VALLEY ROAD	HILLSIDE ROAD	RIVERSIDE DRIVE	49	722	1,925	\$74,224.15
WESTCHESTER CIRCLE	SPRAGUE ST	CUL DE SAC	37	1,038	3,039	\$100,936.11
Repair Type Sum				17,739	51,003	\$1,901,659.64

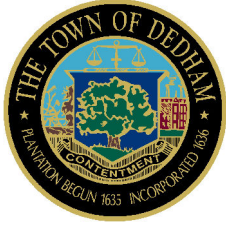
Repair Type: Routine Maintenance

BRIDGE STREET	BRIDGE STREET	HIGH STREET	91	463	1,542	\$1,273.84
BUSSEY STREET	350' N OF HIGH ST	170' N OF HIGH ST	91	201	1,137	\$939.05
COMMON STREET	36' W OF HAVEN ST	1155' W OF WEST ST	91	2,161	7,202	\$5,949.84
COMMON STREET	BRIDGE ST	DEXTER ST	91	250	888	\$733.72
CURVE STREET	100' E OF WASHINGTON ST	WASHINGTON ST	91	100	221	\$182.84
EASTERN AVENUE	RTE 1	150' N OF MAH WAY	91	326	941	\$777.28

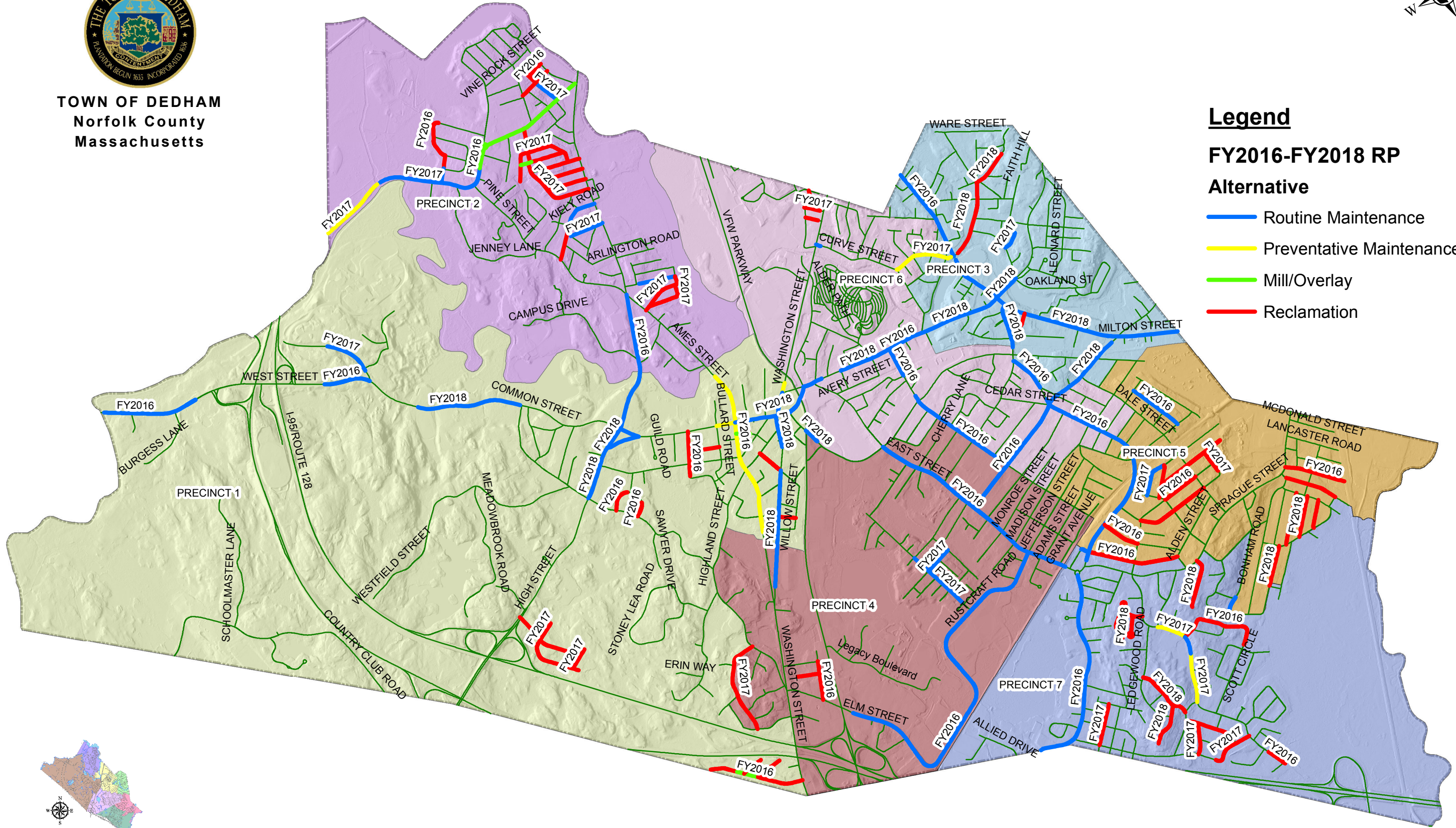
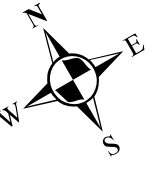
Town of Dedham - Pavement Management Road Program

<i>Name</i>	<i>From</i>	<i>To</i>	<i>PCI</i>	<i>Length (ft)</i>	<i>Area (sy)</i>	<i>Cost</i>
HIGH STREET	200' E OF LINDEN PLACE	100' W OF BROOKDALE AVE	91	394	1,401	\$1,157.56
HIGH STREET	250' N OF EASTERN AV	EASTERN AV	91	248	1,239	\$1,023.12
HIGH STREET	80' W OF MILTON ST	MAVERICK ST	91	1,654	9,189	\$7,591.39
HIGH STREET	BRIDGE ST	WESTFIELD ST	91	1,138	3,541	\$2,925.01
HIGH STREET	COMMON ST	BRIDGE ST	91	685	1,903	\$1,571.88
HIGH STREET	EASTERN AV	MAPLE PL	92	505	3,255	\$2,689.02
HIGH STREET	HARRIS ST	122' S OF HARRIS ST	91	123	614	\$506.81
HIGH STREET	MAPLE PL	AMES ST	91	644	2,434	\$2,010.74
HIGH STREET	MT VERNON ST	CROWLEY AV	91	504	1,792	\$1,480.37
MILTON STREET	140' S OF RIVER ST	TOWNLIN	91	1,067	3,911	\$3,231.06
MILTON STREET	150' S OF MYRTLE ST	200' N OF RIVER ST	91	1,650	6,598	\$5,450.93
MILTON STREET	200' N OF RIVER ST	140' S OF RIVER ST	91	389	2,552	\$2,108.27
MILTON STREET	SAWMILL LA	WALNUT ST	91	227	1,762	\$1,455.95
MT. VERNON STREET	HIGH ST	RECREATION RD	91	252	839	\$693.09
RIVER STREET	180' W OF MILTON ST	CEDAR ST	91	1,838	5,310	\$4,386.62
SAWMILL LANE	EMMITT AV	MILTON ST	91	576	1,920	\$1,586.38
WALNUT STREET	CASS AV	HAZELNUT PL	91	585	1,689	\$1,395.63
WALNUT STREET	MILTON ST	CASS AV	91	148	642	\$530.52
WASHINGTON STREET	HIGH ST	SCHOOL ST	91	303	2,557	\$2,112.31
WASHINGTON STREET	HIGH ST	HARRIS ST	91	477	1,856	\$1,533.57
WASHINGTON STREET	METCALF ST	378' N OF COURT ST	91	1,454	5,168	\$4,269.28
WASHINGTON STREET	SCHOOL ST	BRYANT ST	91	356	1,821	\$1,504.40
WASHINGTON STREET	SPRUCE ST	METCALF ST	91	961	2,991	\$2,470.62
<i>Repair Type Sum</i>				<i>19,676</i>	<i>76,917</i>	<i>\$63,541.10</i>
Year Grand Total				37,650	128,597	\$1,980,111.65
Grand Total of All Years				137,498	442,610	\$6,241,183.63

PAVEMENT MANAGEMENT
FY2016 - FY2018 ROAD PROGRAM



TOWN OF DEDHAM
Norfolk County
Massachusetts

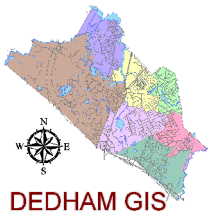


Legend

FY2016-FY2018 RP

Alternative

- Routine Maintenance
- Preventative Maintenance
- Mill/Overlay
- Reclamation

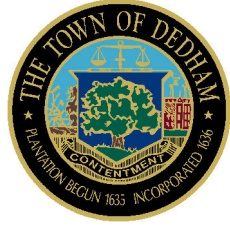


DEDHAM GIS

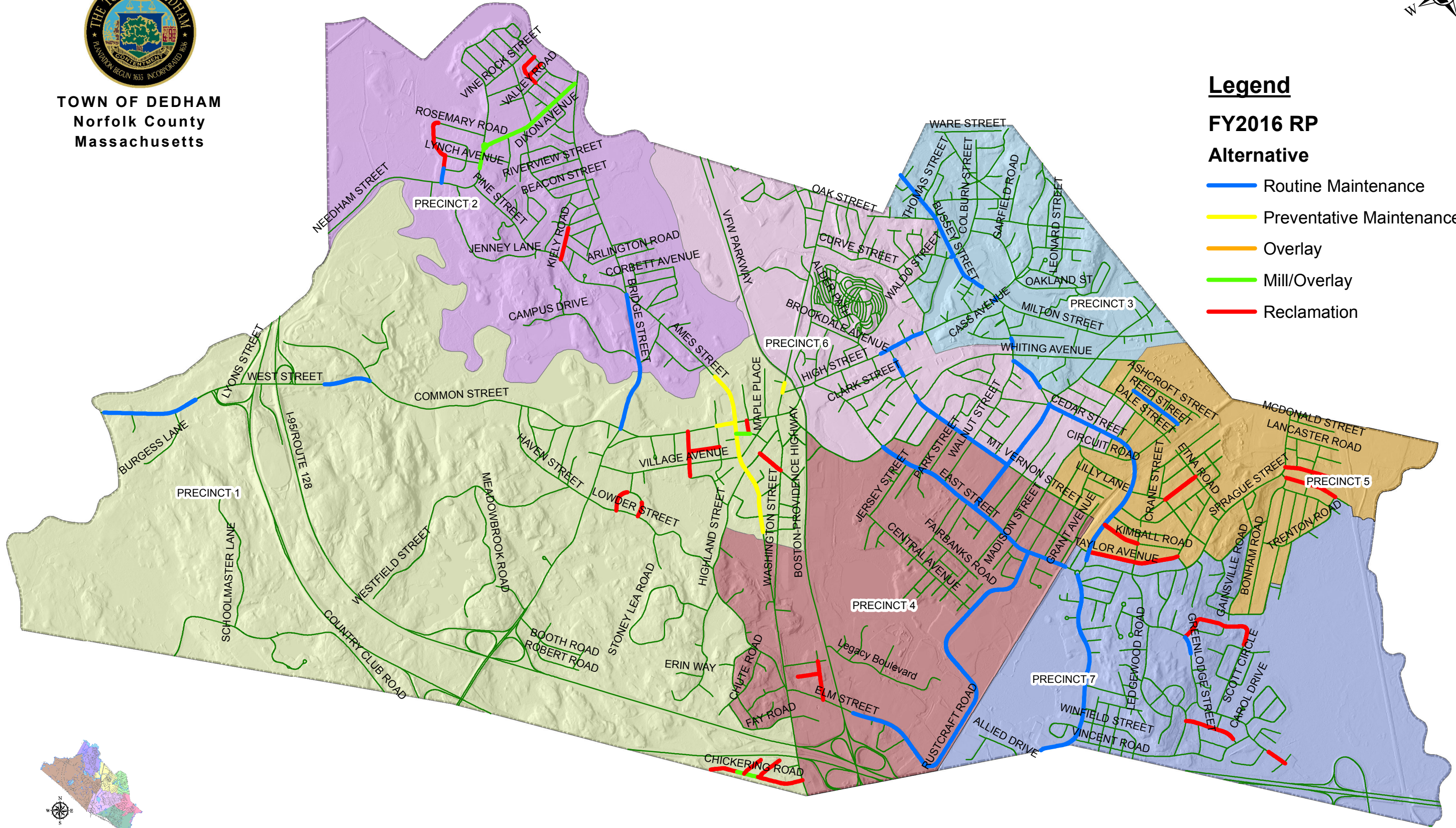
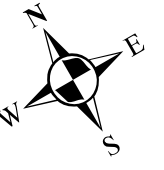
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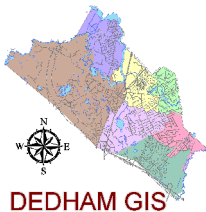


Legend

FY2016 RP

Alternative

- Routine Maintenance
- Preventative Maintenance
- Overlay
- Mill/Overlay
- Reclamation

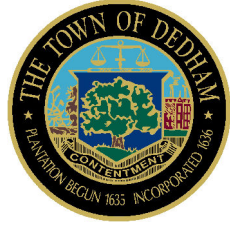


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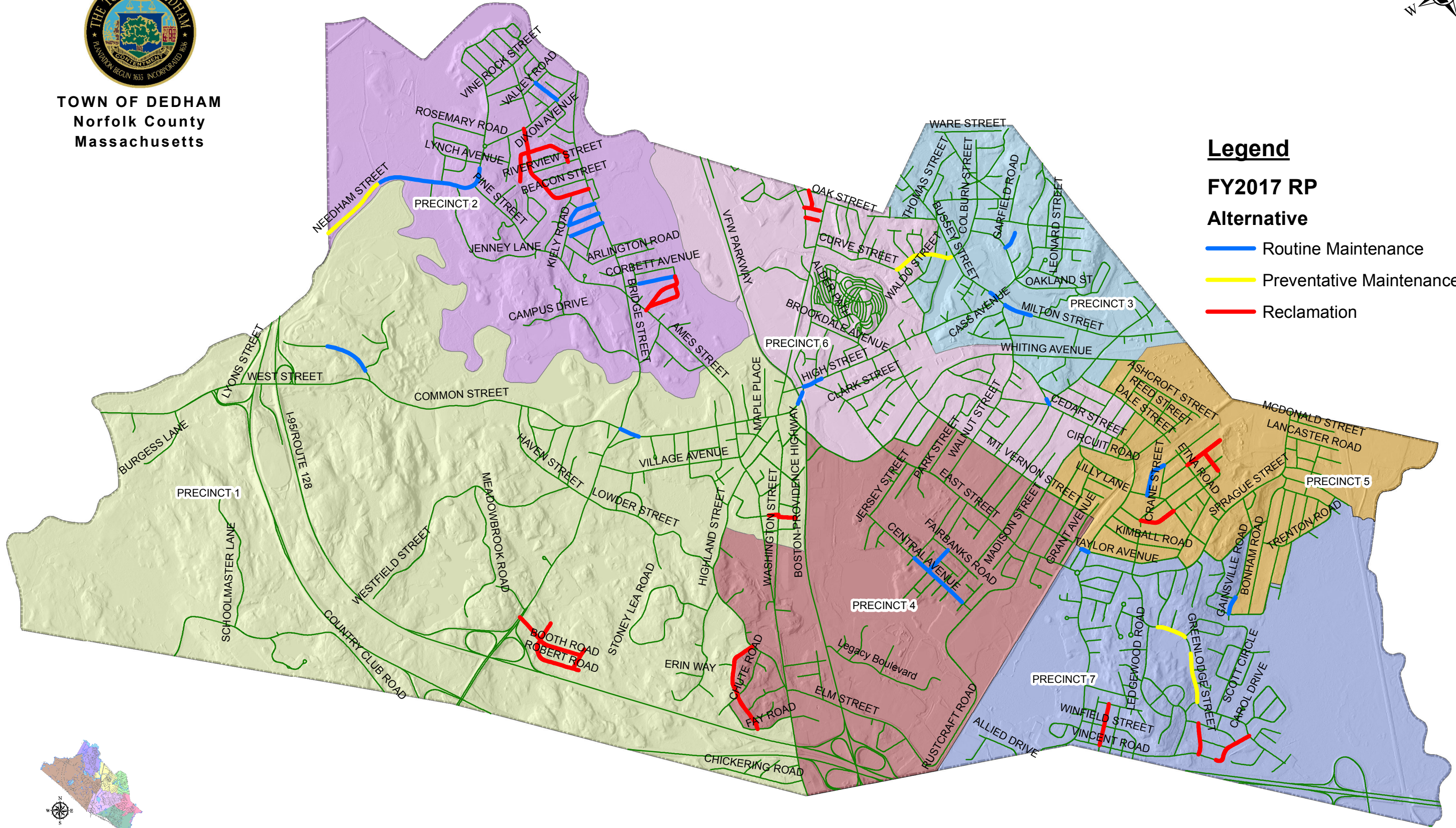
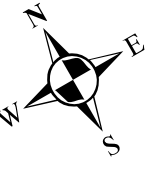
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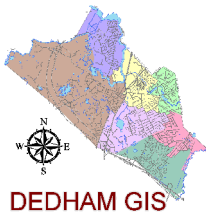


Legend

FY2017 RP

Alternative

- Routine Maintenance
- Preventative Maintenance
- Reclamation

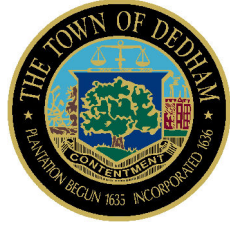


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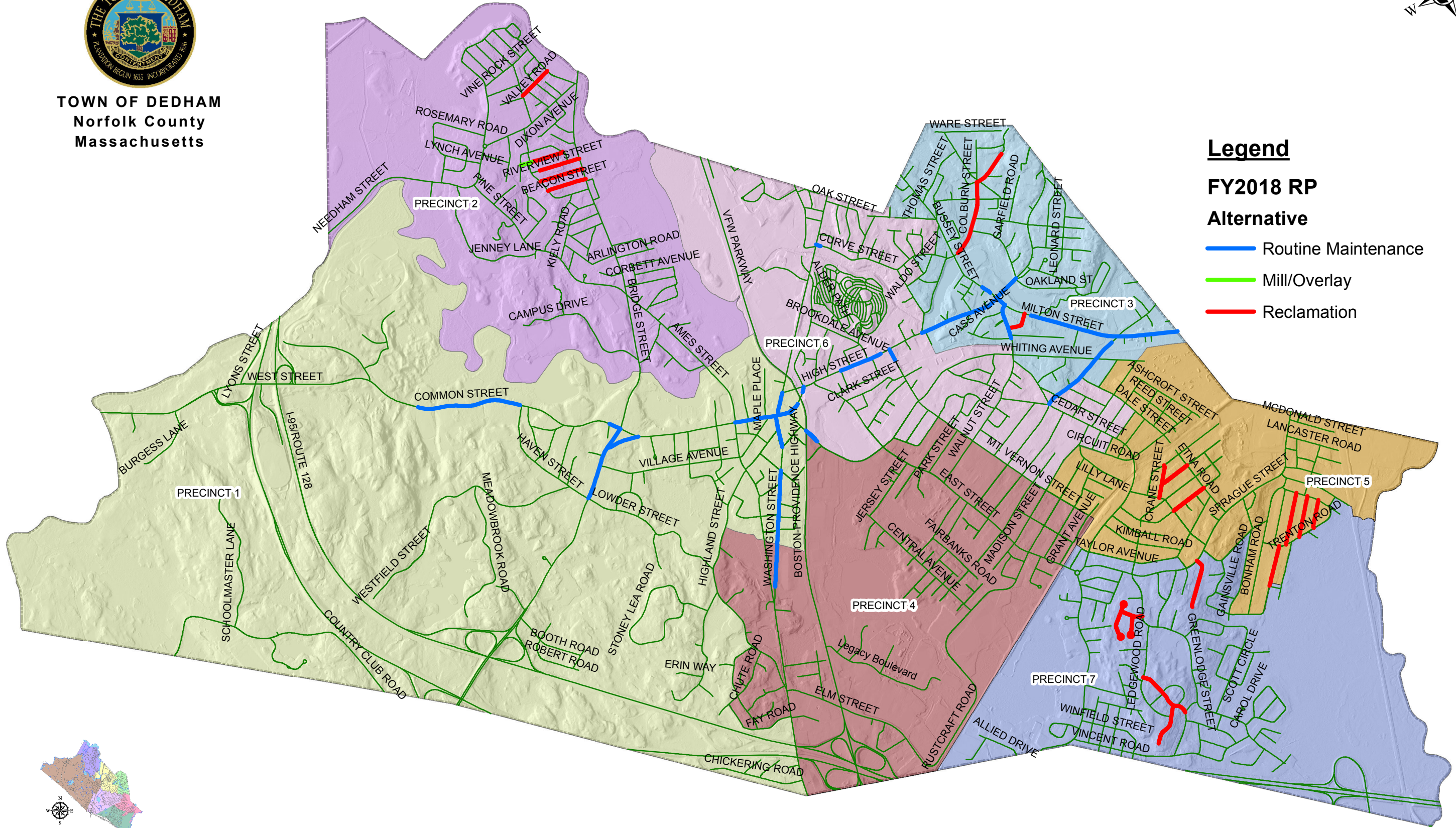
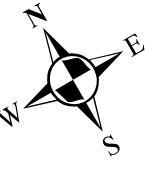
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Legend

FY2018 RP

Alternative

- Routine Maintenance
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