

DEBT SERVICE SCHEDULE

Town of Topsfield, Massachusetts

ISSUE PURPOSE Municipal Purpose Loan of 2019
 ISSUE AMOUNT\$ 12,780,000.00
 ISSUE DATE 03/01/19
 ISSUE TYPE General Obligation Bond
 EXEMPT Yes
 BANK QUALIFIED No
 STATE QUALIFIED No
 SELF-SUPPORTING Yes

FINANCIAL ADVISOR UniBank Fiscal Advisory Services
 PAYING AGENT U.S. Bank National
 REGISTRAR The Depository Trust
 LEGAL OPINION Locke Lord
 PURCHASER Fidelity Capital Markets
 INSURER (none)
 CUSIP NUMBER 890788

<u>Date</u>	<u>Principal Balance</u>	<u>Principal Payment</u>	<u>Interest Payment</u>	<u>Principal & Interest</u>	<u>Coupon Rate</u>	<u>Call Price</u>	<u>Cusip Number</u>
03/01/19	12,780,000.00				%	%	
09/01/19	12,780,000.00	0.00	252,571.88	252,571.88			
03/01/20	12,400,000.00	380,000.00	252,571.87	632,571.87	5.0000	NA	HJ4
09/01/20	12,400,000.00	0.00	243,071.88	243,071.88			
03/01/21	12,010,000.00	390,000.00	243,071.87	633,071.87	5.0000	NA	HK1
09/01/21	12,010,000.00	0.00	233,321.88	233,321.88			
03/01/22	11,535,000.00	475,000.00	233,321.87	708,321.87	5.0000	NA	HL9
09/01/22	11,535,000.00	0.00	221,446.88	221,446.88			
03/01/23	11,040,000.00	495,000.00	221,446.87	716,446.87	5.0000	NA	HM7
09/01/23	11,040,000.00	0.00	209,071.88	209,071.88			
03/01/24	10,530,000.00	510,000.00	209,071.87	719,071.87	5.0000	NA	HN5
09/01/24	10,530,000.00	0.00	196,321.88	196,321.88			
03/01/25	10,005,000.00	525,000.00	196,321.87	721,321.87	5.0000	NA	HP0
09/01/25	10,005,000.00	0.00	183,196.88	183,196.88			
03/01/26	9,460,000.00	545,000.00	183,196.87	728,196.87	5.0000	NA	HQ8
09/01/26	9,460,000.00	0.00	169,571.88	169,571.88			
03/01/27	8,895,000.00	565,000.00	169,571.87	734,571.87	5.0000	NA	HR6
09/01/27	8,895,000.00	0.00	155,446.88	155,446.88			
03/01/28	8,305,000.00	590,000.00	155,446.87	745,446.87	5.0000	100.0000	HS4
09/01/28	8,305,000.00	0.00	140,696.88	140,696.88			
03/01/29	7,705,000.00	600,000.00	140,696.87	740,696.87	5.0000	100.0000	HT2
09/01/29	7,705,000.00	0.00	125,696.88	125,696.88			
03/01/30	7,100,000.00	605,000.00	125,696.87	730,696.87	4.0000	100.0000	HU9
09/01/30	7,100,000.00	0.00	113,596.88	113,596.88			
03/01/31	6,490,000.00	610,000.00	113,596.87	723,596.87	3.0000	100.0000	HV7
09/01/31	6,490,000.00	0.00	104,446.88	104,446.88			
03/01/32	5,870,000.00	620,000.00	104,446.87	724,446.87	3.0000	100.0000	HW5
09/01/32	5,870,000.00	0.00	95,146.88	95,146.88			
03/01/33	5,245,000.00	625,000.00	95,146.87	720,146.87	3.0000	100.0000	HX3
09/01/33	5,245,000.00	0.00	85,771.88	85,771.88			
03/01/34	4,620,000.00	625,000.00	85,771.87	710,771.87	3.0000	100.0000	HY1
09/01/34	4,620,000.00	0.00	76,396.88	76,396.88			
03/01/35	3,995,000.00	625,000.00	76,396.87	701,396.87	3.1250	100.0000	HZ8
09/01/35	3,995,000.00	0.00	66,631.25	66,631.25			
03/01/36	3,360,000.00	635,000.00	66,631.25	701,631.25	3.1250	100.0000	JA1
09/01/36	3,360,000.00	0.00	56,709.38	56,709.38			
03/01/37	2,720,000.00	640,000.00	56,709.37	696,709.37	3.2500	100.0000	JB9
09/01/37	2,720,000.00	0.00	46,309.38	46,309.38			
03/01/38	2,075,000.00	645,000.00	46,309.37	691,309.37	3.2500	100.0000	JC7
09/01/38	2,075,000.00	0.00	35,828.13	35,828.13			
03/01/39	1,600,000.00	475,000.00	35,828.12	510,828.12	3.3750	100.0000	JD5
09/01/39	1,600,000.00	0.00	27,812.50	27,812.50			
03/01/40	1,300,000.00	300,000.00	27,812.50	327,812.50	0.0000	0.0000	
09/01/40	1,300,000.00	0.00	22,750.00	22,750.00			
03/01/41	990,000.00	310,000.00	22,750.00	332,750.00	0.0000	0.0000	
09/01/41	990,000.00	0.00	17,325.00	17,325.00			
03/01/42	670,000.00	320,000.00	17,325.00	337,325.00	0.0000	0.0000	
09/01/42	670,000.00	0.00	11,725.00	11,725.00			
03/01/43	340,000.00	330,000.00	11,725.00	341,725.00	0.0000	0.0000	
09/01/43	340,000.00	0.00	5,950.00	5,950.00			
03/01/44	0.00	340,000.00	5,950.00	345,950.00	0.0000	0.0000	

Total	12,780,000.00	5,793,631.25	18,573,631.25
Net Interest Cost			3.096682 (premium = 106.312476)
True Interest Cost			3.002331
Average Life			12.600939 years

Copyright Lane & Company 2019

Town of Topsfield, Massachusetts

ISSUE PURPOSE Building Addition - Town Hall (inside the debt limit)
 ISSUE AMOUNT\$ 5,800,000.00 FINANCIAL ADVISOR UniBank Fiscal Advisory Services
 ISSUE DATE 03/01/19 PAYING AGENT U.S. Bank National
 ISSUE TYPE General Obligation Bond REGISTRAR The Depository Trust
 EXEMPT Yes LEGAL OPINION Locke Lord
 BANK QUALIFIED No PURCHASER Fidelity Capital Markets
 STATE QUALIFIED No INSURER (none)
 SELF-SUPPORTING No CUSIP NUMBER 890788

<u>Date</u>	<u>Principal Balance</u>	<u>Principal Payment</u>	<u>Interest Payment</u>	<u>Principal & Interest</u>	<u>Coupon Rate</u>	<u>Call Price</u>	<u>Cusip Number</u>
03/01/19	\$ 5,800,000.00	\$	\$	\$	%	%	
09/01/19	5,800,000.00	0.00	110,218.75	110,218.75			
03/01/20	5,665,000.00	135,000.00	110,218.75	245,218.75	5.0000	NA	HJ4
09/01/20	5,665,000.00	0.00	106,843.75	106,843.75			
03/01/21	5,525,000.00	140,000.00	106,843.75	246,843.75	5.0000	NA	HK1
09/01/21	5,525,000.00	0.00	103,343.75	103,343.75			
03/01/22	5,380,000.00	145,000.00	103,343.75	248,343.75	5.0000	NA	HL9
09/01/22	5,380,000.00	0.00	99,718.75	99,718.75			
03/01/23	5,225,000.00	155,000.00	99,718.75	254,718.75	5.0000	NA	HM7
09/01/23	5,225,000.00	0.00	95,843.75	95,843.75			
03/01/24	5,065,000.00	160,000.00	95,843.75	255,843.75	5.0000	NA	HN5
09/01/24	5,065,000.00	0.00	91,843.75	91,843.75			
03/01/25	4,895,000.00	170,000.00	91,843.75	261,843.75	5.0000	NA	HP0
09/01/25	4,895,000.00	0.00	87,593.75	87,593.75			
03/01/26	4,715,000.00	180,000.00	87,593.75	267,593.75	5.0000	NA	HQ8
09/01/26	4,715,000.00	0.00	83,093.75	83,093.75			
03/01/27	4,525,000.00	190,000.00	83,093.75	273,093.75	5.0000	NA	HR6
09/01/27	4,525,000.00	0.00	78,343.75	78,343.75			
03/01/28	4,330,000.00	195,000.00	78,343.75	273,343.75	5.0000	100.0000	HS4
09/01/28	4,330,000.00	0.00	73,468.75	73,468.75			
03/01/29	4,125,000.00	205,000.00	73,468.75	278,468.75	5.0000	100.0000	HT2
09/01/29	4,125,000.00	0.00	68,343.75	68,343.75			
03/01/30	3,905,000.00	220,000.00	68,343.75	288,343.75	4.0000	100.0000	HU9
09/01/30	3,905,000.00	0.00	63,943.75	63,943.75			
03/01/31	3,680,000.00	225,000.00	63,943.75	288,943.75	3.0000	100.0000	HV7
09/01/31	3,680,000.00	0.00	60,568.75	60,568.75			
03/01/32	3,445,000.00	235,000.00	60,568.75	295,568.75	3.0000	100.0000	HW5
09/01/32	3,445,000.00	0.00	57,043.75	57,043.75			
03/01/33	3,205,000.00	240,000.00	57,043.75	297,043.75	3.0000	100.0000	HX3
09/01/33	3,205,000.00	0.00	53,443.75	53,443.75			
03/01/34	2,960,000.00	245,000.00	53,443.75	298,443.75	3.0000	100.0000	HY1
09/01/34	2,960,000.00	0.00	49,768.75	49,768.75			
03/01/35	2,705,000.00	255,000.00	49,768.75	304,768.75	3.1250	100.0000	HZ8
09/01/35	2,705,000.00	0.00	45,784.38	45,784.38			
03/01/36	2,440,000.00	265,000.00	45,784.37	310,784.37	3.1250	100.0000	JA1
09/01/36	2,440,000.00	0.00	41,643.75	41,643.75			
03/01/37	2,170,000.00	270,000.00	41,643.75	311,643.75	3.2500	100.0000	JB9
09/01/37	2,170,000.00	0.00	37,256.25	37,256.25			
03/01/38	1,890,000.00	280,000.00	37,256.25	317,256.25	3.2500	100.0000	JC7
09/01/38	1,890,000.00	0.00	32,706.25	32,706.25			
03/01/39	1,600,000.00	290,000.00	32,706.25	322,706.25	3.3750	100.0000	JD5
09/01/39	1,600,000.00	0.00	27,812.50	27,812.50			
03/01/40	1,300,000.00	300,000.00	27,812.50	327,812.50	3.3750	100.0000	JE3
09/01/40	1,300,000.00	0.00	22,750.00	22,750.00			
03/01/41	990,000.00	310,000.00	22,750.00	332,750.00	3.5000	100.0000	JG8
09/01/41	990,000.00	0.00	17,325.00	17,325.00			
03/01/42	670,000.00	320,000.00	17,325.00	337,325.00	3.5000	100.0000	JG8
09/01/42	670,000.00	0.00	11,725.00	11,725.00			
03/01/43	340,000.00	330,000.00	11,725.00	341,725.00	3.5000	100.0000	JJ2
09/01/43	340,000.00	0.00	5,950.00	5,950.00			

03/01/44	0.00	<u>340,000.00</u>	<u>5,950.00</u>	<u>345,950.00</u>	3.5000	100.0000	JJ2
Total		\$ 5,800,000.00	\$ 3,052,756.25	\$ 8,852,756.25			
		=====	=====	=====			
Average Life					14.922414	years	

Copyright Lane & Company 2019

DEBT SERVICE SCHEDULE

Town of Topsfield, Massachusetts

ISSUE PURPOSE School Project (outside the debt limit)

ISSUE AMOUNT\$ 3,246,000.00

ISSUE DATE 03/01/19

ISSUE TYPE General Obligation Bond

EXEMPT Yes

BANK QUALIFIED No

STATE QUALIFIED No

SELF-SUPPORTING No

FINANCIAL ADVISOR UniBank Fiscal Advisory Services

PAYING AGENT U.S. Bank National

REGISTRAR The Depository Trust

LEGAL OPINION Locke Lord

PURCHASER Fidelity Capital Markets

INSURER (none)

CUSIP NUMBER 890788

<u>Date</u>	<u>Principal Balance</u>	<u>Principal Payment</u>	<u>Interest Payment</u>	<u>Principal & Interest</u>	<u>Coupon Rate</u>	<u>Call Price</u>	<u>Cusip Number</u>
03/01/19	\$ 3,246,000.00	\$	\$	\$	%	%	
09/01/19	3,246,000.00	0.00	65,537.50	65,537.50			
03/01/20	3,190,000.00	56,000.00	65,537.50	121,537.50	5.0000	NA	HJ4
09/01/20	3,190,000.00	0.00	64,137.50	64,137.50			
03/01/21	3,130,000.00	60,000.00	64,137.50	124,137.50	5.0000	NA	HK1
09/01/21	3,130,000.00	0.00	62,637.50	62,637.50			
03/01/22	2,990,000.00	140,000.00	62,637.50	202,637.50	5.0000	NA	HL9
09/01/22	2,990,000.00	0.00	59,137.50	59,137.50			
03/01/23	2,840,000.00	150,000.00	59,137.50	209,137.50	5.0000	NA	HM7
09/01/23	2,840,000.00	0.00	55,387.50	55,387.50			
03/01/24	2,680,000.00	160,000.00	55,387.50	215,387.50	5.0000	NA	HN5
09/01/24	2,680,000.00	0.00	51,387.50	51,387.50			
03/01/25	2,515,000.00	165,000.00	51,387.50	216,387.50	5.0000	NA	HP0
09/01/25	2,515,000.00	0.00	47,262.50	47,262.50			
03/01/26	2,340,000.00	175,000.00	47,262.50	222,262.50	5.0000	NA	HQ8
09/01/26	2,340,000.00	0.00	42,887.50	42,887.50			
03/01/27	2,150,000.00	190,000.00	42,887.50	232,887.50	5.0000	NA	HR6
09/01/27	2,150,000.00	0.00	38,137.50	38,137.50			
03/01/28	1,940,000.00	210,000.00	38,137.50	248,137.50	5.0000	100.0000	HS4
09/01/28	1,940,000.00	0.00	32,887.50	32,887.50			
03/01/29	1,730,000.00	210,000.00	32,887.50	242,887.50	5.0000	100.0000	HT2
09/01/29	1,730,000.00	0.00	27,637.50	27,637.50			
03/01/30	1,530,000.00	200,000.00	27,637.50	227,637.50	4.0000	100.0000	HU9
09/01/30	1,530,000.00	0.00	23,637.50	23,637.50			
03/01/31	1,330,000.00	200,000.00	23,637.50	223,637.50	3.0000	100.0000	HV7
09/01/31	1,330,000.00	0.00	20,637.50	20,637.50			
03/01/32	1,130,000.00	200,000.00	20,637.50	220,637.50	3.0000	100.0000	HW5
09/01/32	1,130,000.00	0.00	17,637.50	17,637.50			
03/01/33	930,000.00	200,000.00	17,637.50	217,637.50	3.0000	100.0000	HX3
09/01/33	930,000.00	0.00	14,637.50	14,637.50			
03/01/34	735,000.00	195,000.00	14,637.50	209,637.50	3.0000	100.0000	HY1
09/01/34	735,000.00	0.00	11,712.50	11,712.50			
03/01/35	550,000.00	185,000.00	11,712.50	196,712.50	3.1250	100.0000	HZ8
09/01/35	550,000.00	0.00	8,821.88	8,821.88			
03/01/36	365,000.00	185,000.00	8,821.87	193,821.87	3.1250	100.0000	JA1
09/01/36	365,000.00	0.00	5,931.25	5,931.25			
03/01/37	180,000.00	185,000.00	5,931.25	190,931.25	3.2500	100.0000	JB9
09/01/37	180,000.00	0.00	2,925.00	2,925.00			
03/01/38	0.00	180,000.00	2,925.00	182,925.00	3.2500	100.0000	JC7
Total	\$ 3,246,000.00	\$ 1,305,956.25	\$ 4,551,956.25				
=====							
Average Life	10.936845 years						

Town of Topsfield, Massachusetts

ISSUE PURPOSE Water Treatment Facility (outside the debt limit)
 ISSUE AMOUNT\$ 3,734,000.00 FINANCIAL ADVISOR UniBank Fiscal Advisory Services
 ISSUE DATE 03/01/19 PAYING AGENT U.S. Bank National
 ISSUE TYPE General Obligation Bond REGISTRAR The Depository Trust
 EXEMPT No LEGAL OPINION Locke Lord
 BANK QUALIFIED No PURCHASER Fidelity Capital Markets
 STATE QUALIFIED No INSURER (none)
 SELF-SUPPORTING Yes CUSIP NUMBER 890788

<u>Date</u>	<u>Principal Balance</u>	<u>Principal Payment</u>	<u>Interest Payment</u>	<u>Principal & Interest</u>	<u>Coupon Rate</u>	<u>Call Price</u>	<u>Cusip Number</u>
03/01/19	\$ 3,734,000.00	\$	\$	\$	%	%	
09/01/19	3,734,000.00	0.00	76,815.63	76,815.63			
03/01/20	3,545,000.00	189,000.00	76,815.62	265,815.62	5.0000	NA	HJ4
09/01/20	3,545,000.00	0.00	72,090.63	72,090.63			
03/01/21	3,355,000.00	190,000.00	72,090.62	262,090.62	5.0000	NA	HK1
09/01/21	3,355,000.00	0.00	67,340.63	67,340.63			
03/01/22	3,165,000.00	190,000.00	67,340.62	257,340.62	5.0000	NA	HL9
09/01/22	3,165,000.00	0.00	62,590.63	62,590.63			
03/01/23	2,975,000.00	190,000.00	62,590.62	252,590.62	5.0000	NA	HM7
09/01/23	2,975,000.00	0.00	57,840.63	57,840.63			
03/01/24	2,785,000.00	190,000.00	57,840.62	247,840.62	5.0000	NA	HN5
09/01/24	2,785,000.00	0.00	53,090.63	53,090.63			
03/01/25	2,595,000.00	190,000.00	53,090.62	243,090.62	5.0000	NA	HP0
09/01/25	2,595,000.00	0.00	48,340.63	48,340.63			
03/01/26	2,405,000.00	190,000.00	48,340.62	238,340.62	5.0000	NA	HQ8
09/01/26	2,405,000.00	0.00	43,590.63	43,590.63			
03/01/27	2,220,000.00	185,000.00	43,590.62	228,590.62	5.0000	NA	HR6
09/01/27	2,220,000.00	0.00	38,965.63	38,965.63			
03/01/28	2,035,000.00	185,000.00	38,965.62	223,965.62	5.0000	100.0000	HS4
09/01/28	2,035,000.00	0.00	34,340.63	34,340.63			
03/01/29	1,850,000.00	185,000.00	34,340.62	219,340.62	5.0000	100.0000	HT2
09/01/29	1,850,000.00	0.00	29,715.63	29,715.63			
03/01/30	1,665,000.00	185,000.00	29,715.62	214,715.62	4.0000	100.0000	HU9
09/01/30	1,665,000.00	0.00	26,015.63	26,015.63			
03/01/31	1,480,000.00	185,000.00	26,015.62	211,015.62	3.0000	100.0000	HV7
09/01/31	1,480,000.00	0.00	23,240.63	23,240.63			
03/01/32	1,295,000.00	185,000.00	23,240.62	208,240.62	3.0000	100.0000	HW5
09/01/32	1,295,000.00	0.00	20,465.63	20,465.63			
03/01/33	1,110,000.00	185,000.00	20,465.62	205,465.62	3.0000	100.0000	HX3
09/01/33	1,110,000.00	0.00	17,690.63	17,690.63			
03/01/34	925,000.00	185,000.00	17,690.62	202,690.62	3.0000	100.0000	HY1
09/01/34	925,000.00	0.00	14,915.63	14,915.63			
03/01/35	740,000.00	185,000.00	14,915.62	199,915.62	3.1250	100.0000	HZ8
09/01/35	740,000.00	0.00	12,025.00	12,025.00			
03/01/36	555,000.00	185,000.00	12,025.00	197,025.00	3.1250	100.0000	JA1
09/01/36	555,000.00	0.00	9,134.38	9,134.38			
03/01/37	370,000.00	185,000.00	9,134.37	194,134.37	3.2500	100.0000	JB9
09/01/37	370,000.00	0.00	6,128.13	6,128.13			
03/01/38	185,000.00	185,000.00	6,128.12	191,128.12	3.2500	100.0000	JC7
09/01/38	185,000.00	0.00	3,121.88	3,121.88			
03/01/39	0.00	185,000.00	3,121.87	188,121.87	3.3750	100.0000	JD5
03/01/40	0.00	0.00	0.00	0.00	0.0000	0.0000	
03/01/41	0.00	0.00	0.00	0.00	0.0000	0.0000	
03/01/42	0.00	0.00	0.00	0.00	0.0000	0.0000	
03/01/43	0.00	0.00	0.00	0.00	0.0000	0.0000	
03/01/44	0.00	0.00	0.00	0.00	0.0000	0.0000	
Total	\$ 3,734,000.00	\$ 1,434,918.75	\$ 5,168,918.75				

Average Life 10.441618 years