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Report Summary:

<u>hlights</u>	<u>January 1, 2022</u>	<u>January 1, 2024</u>	
Contributions			
Funding Schedule FY 2025	\$5,339,061	\$5,339,061	
Funding Schedule FY 2026	5,772,825	5,868,439	
Funded Ratios			
GAS No. 25	60.9%	64.5%	
<u>Participants</u>			
Actives	290	295	
Retirees and Beneficiaries	251	256	
Inactives	72	116	
Disabled	<u>16</u>	<u>16</u>	
Total	629	683	
<u>Payroll</u>			
Payroll of Active Members	\$16,618,668	\$18,048,080	
Average Payroll	57,306	61,180	
Normal Cost			
Employer	647,845	648,944	
Employee	1,502,895	1,643,214	
Administrative Expenses	<u>175,000</u>	225,000	
Total	2,325,740	2,517,158	
Actuarial Accrued Liabilities			
Actives	39,365,930	40,293,775	
Retirees, Beneficiaries, Disabilities and Inactives	76,429,789	81,981,676	
Total	115,795,719	122,275,451	
Actuarial Value of Assets	70,562,551	78,815,264	
Unfunded Actuarial Accrued Liabilities	\$45,233,168	\$43,460,187	

Introduction

This report presents the findings of an actuarial valuation as of January 1, 2024, of Amesbury Contributory Retirement System.

The actuarial valuation is based on:

- Provisions Chapter 32 of the Massachusetts General Laws, "M.G.L", as of January 1, 2024.
- Employee data provided by the Retirement Board
- Asset information reported to the Public Employee Retirement Administration Commission by the Amesbury Retirement System
- Actuarial assumptions approved by the Retirement Board

The valuation and appropriation forecast are prepared in accordance with Chapter 32 of the M.G.L. as of January 1, 2024.

The valuation and forecast do not account for:

- Any subsequent changes in the law
- Chapter 32 of the M.G.L., Section 3(8)(c) transfers between systems
- State-mandated benefits
- Cost-of-living increases granted to retired members between 1982 and 1997. The
 cost of these benefits has been assumed by the State under Proposition Two and
 One-Half.

Actuarial Experience

In performing the actuarial valuation, various assumptions are made regarding such factors as mortality, retirement, disability, and withdrawal rates as well as both payroll, salary increases, and investment returns. A comparison of the current valuation and the prior valuation is made to determine how closely actual experience corresponded to anticipated occurrences. This analysis of the system provides insight into the overall quality of the actuarial assumptions and helps explain any change in the annual appropriation.

During the last 2 years, based on the 2022 actuarial assumptions and plan provisions, the total unfunded actuarial accrued liability decreased by 4.0% to \$43,460,187. The decrease is the result of net unfavorable actuarial experience during the preceding years, offset by amortization payments on the unfunded actuarial accrued liability. The sources of actuarial (gains) and losses are as follows:

Assets	723,841
Retirements	695,027
Terminations	(1,809,509)
Death while active	(20,077)
Disabled while active	(514,824)
Salary	1,330,771
New Participants	2,692,833
Inactive Mortality	(396,695)
Inactive Data Changes	140,577
Benefit Payments	1,231,346
Other	139,500
Total (Gain) / Loss	4,212,788

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Actuarial Costs and Liabilities:

Normal Costs

The normal cost is the sum of the individual normal costs determined for each member as if the assumptions underlying the cost determinations had been exactly realized. An individual normal cost represents that part of the cost of a member's future benefits which are assigned to the current year as if the costs are to remain level as a percentage of the member's pay. Benefits payable under all circumstances (i.e., retirement, death, disability, and terminations) are included in this calculation. Anticipated employee contributions to be made during the year are subtracted from the total normal cost to determine employer normal cost. The total normal cost is divided by total payroll to determine the normal cost as a percent of pay. The normal cost is shown in Table I.

	Table I	
	<u>January 1, 2022</u>	<u>January 1, 2024</u>
Superannuation	\$1,395,369	\$1,478,966
Termination	364,817	387,325
Death	103,102	113,565
Disability	287,452	312,302
Administrative Expenses	<u>175,000</u>	225,000
Total Normal Cost	2,325,740	2,517,158
% of Pay	14.0%	13.9%
Employee Contributions	1,502,895	1,643,214
% of Pay	9.0%	9.1%
Employer Normal Cost	\$822,845	\$873,944
% of Pay	5.0%	4.8%

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Present Value of Actuarial Accrued Liabilities

The actuarial accrued liabilities (AAL) represents today's value of all benefits based on the past service of the actives and inactives. The AAL can be compared to the assets to determine the funded status of the Plan. The value of these earned benefits is shown in Table II below.

	Table II		
	<u>January 1, 2022</u>	January 1, 2024	
Actives			
Superannuations	\$37,852,695	\$38,573,880	
Termination	(963,435)	(899,792)	
Death	750,465	828,234	
Disability	1,726,205	1,791,453	
Retirees and Inactives			
Retirees and Beneficiaries	69,512,783	74,372,766	
Terminated (Refund)	976,285	1,789,547	
Disabled	<u>5,940,721</u>	<u>5,819,363</u>	
Total	\$115,795,719	\$122,275,451	

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Present Value of Future Benefits

The present value of future benefits represents today's value of all benefits earned by the inactive participants as well as all benefits earned and expected to be earned in the coming years by the active participants. The difference between the present value of future benefits and the present value of actuarial accrued liabilities is the value of benefits to be earned in the coming years. The value of the total expected benefits is shown in Table III.

Table III								
	<u>January 1, 2022</u>	January 1, 2024						
Actives								
Superannuation	\$50,410,612	\$52,345,733						
Termination	2,064,897	2,405,827						
Death	1,665,275	1,864,923						
Disability	4,698,072	5,150,673						
Retirees and Inactives								
Retirees and Beneficiaries	69,512,783	74,372,766						
Terminated (Refund)	976,285	1,789,547						
Disabled	<u>5,940,721</u>	5,819,363						
Total	\$135,268,645	\$143,748,832						

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Funded Status and Appropriations:

Market Value of Plan Assets

The trust fund composition on a market value basis is shown in Table IV.

Table IV									
	<u>January 1, 2022</u>	<u>January 1, 2024</u>							
Cash equivalents	\$3,093,332	\$4,552,139							
Short term investments	0	0							
Fixed income securities	0	0							
Equities	75,247,529	70,789,799							
International	0	0							
Real Estate	0	0							
Venture Capital	0	0							
Other	0	0							
Accounts receivable	61,973	0							
Accounts payable	0	(1,726)							
Accrued income	<u>0</u>	<u>0</u>							
Total Market Value	\$78,402,834	\$75,340,212							
Total Actuarial Value	\$70,562,551	\$78,815,264							

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Actuarial Value of Assets

The actuarial value of assets is determined by projecting the market value of assets as of the beginning of the prior plan year with the assumed rate of return during that year (7.5%) and accounting for deposits and disbursements with interest at the assumed rate of return. An adjustment is then applied to recognize the difference between the actual investment return and expected return over a five year period. This preliminary actuarial value is not allowed to differ from the market value of assets by more than 10%. The calculation of the actuarial value of assets as of January 1, 2024 is presented in Table V.

Table V

		January 1, 2024
(1)	Market value at January 1, 2023	\$68,788,460
(2)	2023 Contributions	\$8,830,284
(3)	2023 Payments	(\$9,489,224)
(4)	Net interest adjustment at 7.75% on (1), (2), and (3) to December 31, 2023	\$5,134,424
(5)	Expected market value on January 1, 2024	\$73,263,944
	(1) + (2) + (3) + (4)	
(6)	Actual market value on January 1, 2024	\$75,340,212
(7)	2023 (Gain) / Loss	(\$2,076,268)
(8)	80% of 2023 (Gain) / Loss	(\$1,661,014)
(9)	2022 (Gain) / Loss	\$14,264,444
(10)	60% of 2022 (Gain) / Loss	\$8,558,666
(11)	2021 (Gain) / Loss	(\$7,470,735)
(12)	40% of 2021 (Gain) / Loss	(\$2,988,294)
(13)	2020 (Gain) / Loss	(\$2,171,531)
(14)	20% of 2020 (Gain) / Loss	(\$434,306)
(15)	Actuarial value on January 1, 2024, $(6) + (8) + (10) + (12) + (14)$	\$78,815,263
(16)	but not less than 90% nor greater than 110% of (6)	\$78,815,263
(17)	Ratio of actuarial value to market value	104.61%
(18)	Actuarial Value Return for 2022	9.69%
(19)	Actuarial Value Return for 2023	12.15%
(20)	Market Value Return for 2022	11.32%
(21)	Market Value Return for 2023	19.02%

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Unfunded Actuarial Accrued Liabilities

Under the Entry Age Normal Actuarial Cost Method, the Actuarial Accrued Liability represents what the accumulated assets would have been as of the valuation date if:

- current plan provisions and assumptions had always been in effect,
- experience conformed exactly to assumptions, and
- the normal cost had been contributed each year since inception.

The actuarial value of the Fund's assets as of the end of the prior year are subtracted from the Actuarial Accrued Liability (AAL) to determine the Unfunded Actuarial Accrued Liability (UAAL) as of the valuation date. Over time, annual pension contributions will accumulate Plan assets equal to the AAL, and the UAAL will be eliminated. Thereafter, annual contributions equal to the normal cost will keep the Plan's assets and liabilities in balance. The UAAL is developed in Table VI.

	Table VI	
	<u>January 1, 2022</u>	January 1, 2024
Actuarial Accrued Liability	\$115,795,719	\$122,275,451
Actuarial Assets	70,562,551	78,815,264
Unfunded Actuarial Accrued	Liability \$45,233,168	\$43,460,187
Funded Status	60.9%	64.5%

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Appropriations

The pension appropriation for the upcoming fiscal years have been calculated in accordance with the requirements set forth in Section 22D of Chapter 32 of the Massachusetts General Laws, and Chapter 188 of the Acts of 2010, An Act Relative to Municipal Relief. These amounts were calculated to comply with the June 30, 2040, full funding mandate for all accrued liabilities. The pension appropriation is the sum of the:

- Employer normal cost,
- Increasing amortization of the unfunded actuarial accrued liability by June 30, 2035 \$43,113,933 over 11 years with 5.0% increasing payments
- Increasing amortization of the 2003 Early Retirement Incentive unfunded liability by June 30, 2025 \$346,254 over 1 years 4.5% increasing payments
- Interest adjustment for payments made from July through December The pension appropriation is shown in Table VII.

Table VII		
	<u>January 1, 2022</u>	<u>January 1, 2024</u>
Normal cost	\$822,845	\$873,944
Amortization payment of unfunded accrued liability	4,125,403	4,396,622
Amortization payment of 2003 ERI liability	317,076	346,254
Total cost	\$5,265,323	\$5,616,821
% of Pay	31.7%	31.1%
Fiscal 2025 cost	\$5,339,061	\$5,339,061
Fiscal 2026 cost	\$5,772,825	\$5,868,439

Appropriation Forecast

The following exhibit forecasts employer and employee contributions over the next 32 years under the adopted funding schedule.

Note that the forecast is based upon an "open group" method. This method assumes that sufficient employees will be hired each year to keep the number constant. The total payroll of the system is expected to increase 4.0% per year. The employee contribution rate is expected to increase to 10.5% by 2042 as members contributing base percentages 5%, 7%, and 8% are replaced by new members, whose base contribution is 9%. Payments are assumed to be made at the beginning of the year.

The employer total cost is expected to increase during the next 10 years until the unfunded liabilities are substantially paid off, at which time only the normal cost will remain. The total cost represents about 31% of payroll, increasing to 33% by the time the unfunded liabilities are fully paid off, leaving only a normal cost of about 4% thereafter. The decrease in the cost as a percentage of payroll is a result of the increase in member deductions.

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Appropriation Forecast

Fiscal		Employer	Amortization	Employer	Employer	Unfunded	
Year	Employee	Normal Cost	Payments	Total Cost	Total Cost	Accrued	Funded
Ending	<u>Contribution</u>	with Interest	with Interest	with Interest	% of Payroll	<u>Liability</u>	Ratio %**
2025	\$1,643,214	\$919,831	\$4,419,230	\$5,339,061	29.6	\$44,032,865	64.0
2026	\$1,723,493	\$941,310	\$4,927,129	\$5,868,439	31.3	\$42,236,737	68.5
2027	\$1,807,565	\$963,036	\$5,173,485	\$6,136,521	31.4	\$40,368,401	72.4
2028	\$1,895,606	\$984,993	\$5,432,159	\$6,417,152	31.6	\$38,108,135	76.2
2029	\$1,987,797	\$1,007,166	\$5,703,767	\$6,710,933	31.8	\$35,413,954	79.8
2030	\$2,084,331	\$1,029,537	\$5,988,956	\$7,018,493	32.0	\$32,240,095	83.1
2031	\$2,185,407	\$1,052,086	\$6,288,404	\$7,340,490	32.1	\$28,536,701	86.3
2032	\$2,291,234	\$1,074,792	\$6,602,824	\$7,677,616	32.3	\$24,249,482	89.3
2033	\$2,402,031	\$1,097,631	\$6,932,965	\$8,030,596	32.5	\$19,319,349	92.2
2034	\$2,518,025	\$1,120,577	\$7,279,613	\$8,400,190	32.7	\$13,682,014	94.9
2035	\$2,639,456	\$1,143,603	\$7,643,594	\$8,787,197	32.9	\$7,267,564	97.5
2036	\$2,766,573	\$1,166,678	\$0	\$1,166,678	4.2	\$0	100.0
2037	\$2,899,635	\$1,189,770	\$0	\$1,189,770	4.1	\$0	100.0
2038	\$3,038,916	\$1,212,842	\$0	\$1,212,842	4.0	\$0	100.0
2039	\$3,184,701	\$1,235,856	\$0	\$1,235,856	4.0	\$0	100.0
2040	\$3,337,285	\$1,258,770	\$0	\$1,258,770	3.9	\$0	100.0
2041	\$3,496,981	\$1,281,541	\$0	\$1,281,541	3.8	\$0	100.0
2042	\$3,664,113	\$1,304,119	\$0	\$1,304,119	3.7	\$0	100.0
2043	\$3,839,020	\$1,326,452	\$0	\$1,326,452	3.6	\$0	100.0
2044	\$3,992,581	\$1,379,510	\$0	\$1,379,510	3.6	\$0	100.0
2045	\$4,152,284	\$1,434,691	\$0	\$1,434,691	3.6	\$0	100.0
2046	\$4,318,376	\$1,492,079	\$0	\$1,492,079	3.6	\$0	100.0
2047	\$4,491,111	\$1,551,762	\$0	\$1,551,762	3.6	\$0	100.0
2048	\$4,670,755	\$1,613,832	\$0	\$1,613,832	3.6	\$0	100.0
2049	\$4,857,585	\$1,678,385	\$0	\$1,678,385	3.6	\$0	100.0
2050	\$5,051,889	\$1,745,521	\$0	\$1,745,521	3.6	\$0	100.0
2051	\$5,253,964	\$1,815,342	\$0	\$1,815,342	3.6	\$0	100.0
2052	\$5,464,123	\$1,887,955	\$0	\$1,887,955	3.6	\$0	100.0
2053	\$5,682,688	\$1,963,474	\$0	\$1,963,474	3.6	\$0	100.0
2054	\$5,909,995	\$2,042,013	\$0	\$2,042,013	3.6	\$0	100.0
2055	\$6,146,395	\$2,123,693	\$0	\$2,123,693	3.6	\$0	100.0
2056	\$6,392,251	\$2,208,641	\$0	\$2,208,641	3.6	\$0	100.0

EXHIBITS

Exhibit 1 - Age/Service Distribution with Salary as of January 1, 2024

Total	2 34,339	10 41,218	25 52,621	36 60,048	33 79,032	32 61,735	19 61,138	42 75,559	40 60,948	38 51,679	12 43,697	6 40,862	295 61,180
40+	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 91,935	2 107,769	1 86,700	0 0	4 98,543
35-39	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	6 85,993	1 94,877	0 0	0 0	7 87,262
30-34	0 0	0 0	0	0 0	0 0	0 0	0 0	4 108,603	1 129,260	1 57,537	1 29,335	0	8 81,318
25-29	0 0	0 0	0 0	0 0	0 0	0 0	0 0	6 106,680	2 103,244	8 80,897	2 62,668	2 31,198	20 84,074
20-24	0 0	0 0	0 0	0 0	0 0	4 97,879	3 72,945	8 101,744	8 66,006	2 33,028	0	1 59,391	26 79,915
15-19	0 0	0 0	0 0	0 0	2 70,834	2 87,034	3 59,483	0 0	3 31,507	2 56,772	0	0 1	13 54,019
10-14	0	0 0	0	3 94,597	10 87,766	6 64,923	0	4 60,188	2 73,547	3 38,297	0	0 0	28 73,348
5-9	0	0 1	2 70,923	12 72,429	5 98,197	8 58,590	6 69,141	5 54,333	8 45,436	8 32,263	1 63,145	0 0	56 59,678
Average Salary	2 34,339	9 37,564	23 51,030	21 48,037	16 68,609	12 45,973	7 49,928	15 51,508	9 40,127	11 36,008	31,407	32,380	s 133 47,896
Attained Age	< 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	69-69	70+	Total Employees Average Salary

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Exhibit 2 - Retiree Distribution as of January 1, 2024

	Number	of Employ	ees	Total	Payments																																																																									
Attained Age	Female	Male	Total	Female	Male	Total																																																																								
< 20	0	0	0	0	0	0																																																																								
20-24	0	0	0	0	0	0																																																																								
25-29	0	2 2 0 3,133		2 2 0 3,133	*	2 0 3,133	2 2 0 3,133	*	3,133 3,133																																																																					
30-34	0	0	0	0	0	0																																																																								
35-39	0	0	0	0	0	0																																																																								
40-44	0	0	0	0	0	0																																																																								
45-49	0	0	0	0	0	0																																																																								
50-54	2	8	10	32,046	331,406	363,453																																																																								
55-59	3	5	8	28,295	158,611	186,907																																																																								
60-64	15	15 16 31 312,594 974,320 34 20 54 822,814 1,119,567 29 31 60 664,569 1,238,448 16 16 32 251,174 448,395 20 9 29 355,722 254,939 16 5 21 259,535 128,877	31	312,594	974,320	1,286,914																																																																								
65-69	34		29 31 60 664,569 1,238,448 16 16 32 251,174 448,395 20 9 29 355,722 254,939 16 5 21 259,535 128,877		822,814 1,119,567	1,119,567 1,9	1,942,381																																																																							
70-74	29			16 16 32 251,174 448,395 20 9 29 355,722 254,939 16 5 21 259,535 128,877	31 60 664,569 1,23		1,238,448	1,903,016																																																																						
75-79	16							251,174 448,395	699,568																																																																					
80-84	20											9 29 355,722 254,939	9 29 355,722 254,939	9 29 355,722 254,939	0 9 29 355,722 254,93	9 29 355,722 254,939	29 355,722 254,939	· · · · · · · · · · · · · · · · · · ·	29 355,722 254,939	254,939 610,6	610,660																																																									
85-89	16				5 21	, , , , , , , , , , , , , , , , , , ,	128,877	388,412																																																																						
90-94	5				2 7 112,773 31,627	2 7 112,773 31,627	2 7 112,773 31,627					2 7 112,773 31,627	2 7 112,773 31,627	2 7 112,773 31,627	2 7 112,773 31,627	2 7 112,773 31,627					2 7 112,773 31,627	2 7 112,773 31,627																											2 7 112,773 31,627	2 7 112,773 31,627	5 2 7 112,773 31,627			5 2 7 112,773 31,627			5 2 7 112,773 31,627		2 7 112,773 31,627	2 7 112,773 31,627							2 7 112,773 31,627		2 7 112,773 31,627					/			7 112,773 31,627	112,773 31,627 144
95+	2	0	2	57,457	0	57,457																																																																								
	142	114	256	2,896,978	4,689,322	7,586,301																																																																								
rage (Age/Payment)	74.32	70.08	72.43	20,401	41,134	29,634																																																																								
uency Percent	55.5	44.5	100	38.2	61.8	100																																																																								

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Exhibit 3 - Disabled Retiree Distribution as of January 1, 2024

	Number	of Employ	ees	Total	Payments																					
Attained Age	Female	Male	Total	Female	Male	Total																				
< 20	0	0	0	0	0	0																				
20-24	0	0	0	0	0	0																				
25-29	0	0	0	0	0	0																				
30-34	0	0	0	0	0	0																				
35-39	0	0	0	0	0	0																				
40-44	0	0	0	0	0	0																				
45-49	0	0	0	0	0	0																				
50-54	0	1	1	0	42,260	42,260																				
55-59	0	3	3	0	131,766	131,766																				
60-64	0	0	0	0	0	0																				
65-69	1	4	5	37,578	167,038	204,616																				
70-74	1			0 3 3 0 131,308 0 0 0 0 0 1 1 2 8,306 36,699	0 3 3 0 131,308 0 0 0 0 0	0 3 3 0 131,308	0 3 3 0 131,308	1 1 2 9,282 42,388 0 3 3 0 131,308	1 1 2 9,282 42,388 0 3 3 0 131,308	1 1 2 9,282 42,388 0 3 3 0 131,308	1 2 9,282 42,388 0 3 0 131,308	0 3 3 0 131,308				51,670										
	0															, , , , , , , , , , , , , , , , , , ,		· · · · · · · · · · · · · · · · · · ·		3 0 131,30	3 3 0 1			0 131,308		
		-														0 0	0									
85-89	1	1 2 8,306 36,699			-	45,006																				
90-94	0							0 0 0		0																
95-99	0	0	0	0	0	0																				
al	3	13	16	55,166	551,459	606,626																				
erage (Age/Payment)	75.48	67.89	69.31	18,389	42,420	37,914																				
quency Percent	18.8	81.3	100	9.1	90.9	100																				

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EXHIBIT 4 - CASHFLOW FORECAST:

The following is a 30 year forecast of benefit payments net of state reimbursable COLA payments, Contribution Income and Investment Returns.

Plan Year Ending	Benefit Payments	Employee Contributions	Employer Contributions	Investment Returns	Net change in plan assets
2024	\$10,447,328	\$1,643,214	\$5,339,061	\$6,063,889	\$2,598,836
2025	8,910,080	1,723,493	5,868,439	5,741,812	4,423,664
2026	9,182,658	1,807,565	6,136,521	6,065,705	4,827,133
2027	9,425,109	1,895,606	6,417,152	6,421,141	5,308,790
2028	9,706,893	1,987,797	6,710,933	6,811,436	5,803,274
2029	9,916,121	2,084,331	7,018,493	7,241,684	6,428,387
2030	10,140,721	2,185,407	7,340,490	7,718,457	7,103,632
2031	10,389,190	2,291,234	7,677,616	8,245,214	7,824,873
2032	10,577,376	2,402,031	8,030,596	8,828,517	8,683,768
2033	10,787,290	2,518,025	8,400,190	9,475,686	9,606,611
2034	10,997,134	2,639,456	8,787,197	10,192,333	10,621,851
2035	11,173,610	2,766,573	1,166,678	10,809,142	3,568,783
2036	11,335,459	2,899,635	1,189,770	11,066,419	3,820,365
2037	11,517,363	3,038,916	1,212,842	11,341,697	4,076,092
2038	11,702,187	3,184,701	1,235,856	11,635,915	4,354,285
2039	11,889,977	3,337,285	1,258,770	11,950,752	4,656,830
2040	12,080,780	3,496,981	1,281,541	12,288,027	4,985,769
2041	12,274,645	3,664,113	1,304,119	12,649,718	5,343,305
2042	12,471,621	3,839,020	1,326,452	13,037,963	5,731,813
2043	12,671,758	3,992,581	1,379,510	13,453,531	6,153,863
2044	12,875,107	4,152,284	1,434,691	13,900,355	6,612,223
2045	13,081,719	4,318,376	1,492,079	14,381,148	7,109,884
2046	13,291,647	4,491,111	1,551,762	14,898,843	7,650,069
2047	13,504,943	4,670,755	1,613,832	15,456,616	8,236,259
2048	13,721,662	4,857,585	1,678,385	16,057,901	8,872,209
2049	13,941,860	5,051,889	1,745,521	16,706,416	9,561,966
2050	14,165,590	5,253,964	1,815,342	17,406,181	10,309,897
2051	14,392,911	5,464,123	1,887,955	18,161,543	11,120,710
2052	14,623,880	5,682,688	1,963,474	18,977,201	11,999,483
2053	15,060,438	5,909,995	2,042,013	19,850,801	12,742,371

EXHIBIT 5 – SUMMARY OF PLAN PROVISIONS:

This summary is prepared in accordance with Chapter 32 as of January 1, 2024, and does not take into account any subsequent changes.

1. Administration

Each of the 104 contributory retirement systems for public employees of the Commonwealth of Massachusetts are guided by the applicable provisions of Chapter 32 of the Massachusetts General Laws and other applicable statutes. Although these boards operate semi-independently, there is a uniform set of rules governing benefits, eligibility, contributions, financing, and accounting.

2. Participation

Participation is mandatory for all full-time employees whose employment commences prior to age 65. Eligibility with respect to part-time, professional, temporary, or intermittent employment is governed by the local board. Membership is optional for certain elected officials, State officials appointed by the Governor, and certain hospital interns.

There are four classes of membership as follows:

- (i) Group 1: Most general employees in State and local government
- (ii) Group 2: Certain specified hazardous duty positions
- (iii) Group 3: State police officers and inspectors
- (iv) Group 4: Local police officers, firefighters, and designated employees of the municipal light department.

For members in more than one group, participation will be proportional.

Chapter 176 of the Acts of 2011 created different plan provisions within these groups for those hired on or after April 2, 2012.

3. Salary

Salary is defined as gross regular compensation. Salary <u>does not</u> include bonuses, overtime, severance pay, unused sick leave credit, or other similar compensation.

4. Member Contributions

Member contributions vary depending upon date hired as follows:

	Member	
Date of Hire	Contribution Rate	
Prior to 1975	5.0% of Salary	
1975 to 1983	7.0% of Salary	
1984 to 1996	8.0% of Salary	
1996 and Later plus	9.0% of Salary	
1979 and Later	2.0% of Salary in excess of \$30,000	0

For Group 1 employees who become members on or after April 2, 2012, the Contribution Rate shall be 6% after the completion of 30 years of service.

5. Average Salary

Average salary is used to determine a participant's benefit. It is defined as the average salary during the three consecutive-year period that produces the highest average. (Alternatively, if a greater amount results, it is the average rate of salary earned during the period or periods, whether or not consecutive, that constitutes the last three years preceding retirement.). For employees who become members on or after April 2, 2012, the averaging period shall be five years.

6. <u>Creditable Service</u>

In general, creditable service is awarded during the period in which a member contributes to the retirement system.

7. Service Retirement

a. <u>Eligibility</u>:

For an employee to be eligible for service retirement (also referred to as superannuation), one of the following conditions must be met:

- (i) completion of 20 years of service, if hired before April 2, 2012
- (ii) for an employee hired prior to January 1, 1978, attainment of age 55 as an active member
- (iii) for an employee hired on or after January 1, 1978, attainment of age 55 as an active member and completion of ten years of service
- (iv) for a Group 1 employee hired on or after April 2, 2012, attainment of age 60 and completion of ten years of service

b. Benefit Amount:

The retirement allowance is determined as a product of the participant's Benefit Rate times Average Salary times Creditable Service, where Benefit Rate is determined from the following table for those hired prior to April 2, 2012:

Age at	Perce	ntage of Average	Salary
<u>Retirement</u>	Group 1	Group 2	Group 4
65 or Over	.025	.025	.025
64	.024	.025	.025
63	.023	.025	.025
62	.022	.025	.025
61	.021	.025	.025
60	.020	.025	.025
59	.019	.024	.025
58	.018	.023	.025
57	.017	.022	.025
56	.016	.021	.025
55	.015	.020	.025
54	.014	.014	.024
53	.013	.013	.023
52	.012	.012	.022
51	.011	.011	.021
50	.010	.010	.020
49	.009	.009	.019
48	.008	.008	.019
47	.007	.007	.017
46	.006	.006	.016
40	.000	.000	.010
45	.005	.005	.015
44	.004	.004	.004
43	.003	.003	.003
42	.002	.002	.002
41	.001	.001	.001

For those hired after April 1, 2012 who retire with less than 30 years of service, the following rates are applied:

Age at	Percei	ntage of Average	Salary
<u>Retirement</u>	Group 1	Group 2	Group 4
67 or Over	.0250	.0250	.0250
66	.0235	.0250	.0250
65	.0220	.0250	.0250
64	.0205	.0250	.0250
63	.0190	.0250	.0250
62	.0175	.0250	.0250
61	.0160	.0235	.0250
60	.0145	.0220	.0250
59		.0205	.0250
58		.0190	.0250
57		0175	0250
57		.0175	.0250
56		.0160	.0235
55		.0145	.0220
54			.0205
53			.0190
52			.0175
51			.0160
50			.0145

For those hired after April 1, 2012 who retire with at least 30 years of service, the following rates are applied:

Age at	Percei	ntage of Average	Salary
Retirement	Group 1	Group 2	Group 4
67 or Over	.02500	.02500	.02500
66	.02375	.02500	.02500
65	.02250	.02500	.02500
64	.02125	.02500	.02500
63	.02000	.02500	.02500
62	.01875	.02500	.02500
61	.01750	.02375	.02500
60	.01625	.02250	.02500
59		.02125	.02500
58		.02000	.02500
57		.01875	.02500
56		.01750	.02375
55		.01625	.02250
54			.02125
53			.02000
52			.01875
51			.01750
50			.01625
			.01025

8. <u>Deferred Vested Retirement</u>

a. Eligibility:

A participant who has completed ten or more years of creditable service is eligible for a deferred vested retirement benefit. If termination is involuntary, the participant is vested after six years.

b. Benefit Amount:

The participant's accrued benefit is payable commencing at age 55, or may be deferred until later at the employee's option.

c. Refund of Contributions:

In lieu of the deferred pension benefit, a member may elect to receive a refund of their accumulated contributions with interest.

9. Accidental Disability

a. Eligibility:

Participants are eligible for an accidental disability benefit, regardless of service or age, if they become permanently and totally incapacitated for further duty as a result of personal injury sustained while in the performance of duties.

b. Benefit Amount:

The accidental disability amount is 72% of annual salary plus \$450 per year for each child plus an additional annuity based upon accumulated Member Contributions with credited interest.

10. Ordinary Disability

a. <u>Eligibility</u>:

An ordinary disability occurs when a member becomes permanently and totally disabled due to sickness or injury that is not job related. In order to be eligible for an ordinary disability benefit, a member must have ten years of service (and be less than age 55 or age 60 if hired on or after April 2, 2012).

b. Benefit Amount:

The ordinary disability amount is equal to the accrued retirement benefit as if the member were age 55 (age 60 if hired on or after April 2, 2012). If the member was a veteran, the benefit is 50% of the member's final rate of Salary during the preceding 12 months, plus an annuity based upon accumulated Member Contributions plus credited interest. If the participant is over age 55 (age 60 if hired on or after April 2, 2012), he will receive not less than the superannuation allowance to which he is entitled.

11. Survivor Benefits

a. <u>Occupational Death</u>:

The survivors of a member who dies due to an occupational injury will be entitled to a lump sum return of contributions plus a pension benefit equal to 72% of the participant's annual Salary.

b. Non-Occupational Death:

Upon the death of a member other than due to an occupational injury, the designated beneficiary will be entitled to a retirement benefit as if Option C had been elected with a minimum of \$250 per month to the surviving spouse, plus \$120 for the first child, plus \$90 for each additional child. If no beneficiary is designated and if the employee worked two years, and is married at least one year, the spouse may elect benefits. If there is no designated beneficiary or surviving spouse, then member contributions are returned. If there are dependent children but no surviving spouse, they may elect minimum survivor benefits of \$250 per month plus \$120 for the first child and \$90 for each additional child.

c. Refund of Contributions:

Upon the death of a member not entitled to survivor benefits, the beneficiary is entitled to a refund of all member contributions with interest.

12. <u>Cost-of-Living Increases</u>

In accordance with the adoption of Chapter 17 of the Acts of 1997, the granting of a cost-of-living adjustment will be determined by an annual vote by the Retirement Board. The amount of increase will be based upon the Consumer Price Index, limited to a maximum of 3.0%, beginning on July 1. All retirees, disabled retirees, and beneficiaries who have been receiving benefits payments for at least one year as of July 1 are eligible for the adjustment. The maximum amount of pension benefit subject to a COLA is \$12,000. All COLAs granted to members after 1981 and prior to July 1, 1998 are deemed to be an obligation of the State and are not the liability of the Retirement System.

13. Postretirement Death Benefits

Any benefits following the death of a member after retirement are based upon the form of benefit the participant elected at the time of retirement. There are three available forms as follows:

- (i) Option A Life annuity
- (ii) Option B Life annuity with death benefit equal to excess of member contributions plus credited interest to retirement over annuity benefit paid to member
- (iii) Option C Life annuity with 66-2/3% of benefit continued after death of member to designated joint annuitant

EXHIBIT 6 – ACTUARIAL METHODS AND ASSUMPTIONS:

The actuarial cost method, factors, and assumptions used in determining cost estimates are presented below. The assumptions are based on the 2015 Experience Study completed by Sherman Actuarial Services, LLC.

1. Member Data

The member data used in the determination of cost estimates consist of pertinent information with respect to the active, inactive, retired, and disabled members of the employer as supplied by the employer to the actuary.

2. Valuation Date

January 1, 2024.

3. Actuarial Cost Method

The costs of the Plan have been determined in accordance with the individual entry age normal actuarial cost method.

4. Rate of Investment Return

It is assumed that the assets of the fund will accumulate at a compound annual rate of 7.5% per annum. The previous valuation assumed 7.75% per annum.

5. Salary Scale

It is assumed that salaries including longevity will increase at a rate of 4.0% per year.

6. <u>Cost-of-Living Increases</u>

Cost-of-living increases have been assumed to be 3.0% of the lesser of the pension amount and \$12,000 per year.

7. Value of Investments

Assets held by the fund are valued at market value as reported by the Public Employees'

Retirement Administration Commission (PERAC). The actuarial value of assets is determined using a five-year smoothing of asset returns greater than or less than the assumed rate of return.

8. Annual Rate of Withdrawal Prior to Retirement

Based on an analysis of experience, the assumed annual rates of withdrawal may best be illustrated by the following rates at the following ages:

<u>Service</u>	General Employees	Police and Fire Employees
0	0.2080	0.1500
5	0.1020	0.1000
10	0.0650	0.0600
15	0.0417	0.0600
20	0.0400	0.0000
30	0.0000	0.0000

9. Annual Rate of Mortality

The mortality assumptions were changed from the prior valuation. It is assumed that mortality for is represented by the various SOA Pub-2010 Public Retirement Plans Mortality Tables specific to the Group, Pre-retirement versus Post, Disabled and Beneficiaries, with Scale MP-2018 improvements until 2025.

10. Service Retirement

Based on an analysis of experience, the assumed annual retirement rates are illustrated at the following ages for those hired prior to April 2, 2012:

	Male	Female	Male and Female
Age	General <u>Employees</u>	General <u>Employees</u>	Police and Fire Employees
50	0.0360	0.1019	0.0382
51	0.0405	0.0714	0.0351
52	0.0437	0.0562	0.0436
53	0.0366	0.0448	0.0527
54	0.0451	0.0488	0.0999
55	0.0477	0.0469	0.1110
56	0.0574	0.0518	0.1413
57	0.0632	0.0509	0.1292
58	0.0765	0.0552	0.1499
59	0.0917	0.0645	0.1679
60	0.1057	0.0774	0.1871
61	0.1224	0.1038	0.2073
62	0.1473	0.1168	0.2176
63	0.1777	0.1440	0.3338
64	0.2136	0.1708	0.5664
65	0.2615	0.1939	1.00000
66	0.2682	0.1959	1.00000
67	0.2500	0.2000	1.00000
68	0.2500	0.2000	1.00000
69	0.2500	0.2000	1.00000
70 to 76	0.2500	0.2500	1.00000
77 to 79	0.3500	0.2500	1.00000
80	1.0000	1.0000	1.00000

Based on an analysis of experience, the assumed annual retirement rates are illustrated at the following ages for those hired on or after April 2, 2012:

	Male General	Female General	Male and Female Police and Fire
<u>Age</u>	Employees	Employees	Employees
50	0.0000	0.0000	0.0191
51	0.0000	0.0000	0.0176
52	0.0000	0.0000	0.0436
53	0.0000	0.0000	0.0211
54	0.0000	0.0000	0.0266
55	0.0000	0.0000	0.0370
56	0.0000	0.0000	0.1060
57	0.0000	0.0000	0.1938
58	0.0000	0.0000	0.1499
59	0.0000	0.0000	0.1119
60	0.0477	0.0469	0.0936
61	0.0574	0.0518	0.1555
62	0.0632	0.0509	0.1741
63	0.0765	0.0552	0.2670
64	0.0917	0.0645	0.4720
65	0.1057	0.0774	0.2500
66	0.1224	0.1038	0.3000
67	0.1473	0.1168	1.0000
68	0.1777	0.1440	1.0000
69	0.2136	0.1708	1.0000
70	0.2615	0.1939	1.0000
70 to 76	0.2682	0.1959	1.0000
77 to 79	0.2500	0.2000	1.0000
80	0.2500	0.2000	1.0000

12. Annual Rate of Disability Prior to Retirement

Based on an analysis of experience, the assumed annual rates of disability may best be illustrated by the following probabilities at the following ages:

Attained <u>Age</u>	General <u>Employees</u>	Police and Fire Employees
20	0.000100	0.000500
30	0.000152	0.000967
40	0.000663	0.002500
50	0.001271	0.007634

In addition, it is assumed for the general employees that 20% of all disabilities are ordinary (80% are service connected). For police and fire employees, 10% of all disabilities are assumed to be ordinary (90% are service connected).

13. Family Composition

It is assumed that 80% of all members will be survived by a spouse and that females (males) are three years younger (older) than members.

14. Administrative Expenses

The normal cost is increased by an amount equal to the anticipated administrative expenses for the upcoming fiscal year. The amount for fiscal year 2024 is \$225,000 and is anticipated to increase at 4.0% per year.

EXHIBIT 7 – GLOSSARY OF TERMS:

This glossary summarizes the technical terms contained in this report.

1. Actuarial Accrued Liability

That portion of the Actuarial Present Value of plan benefits that is not provided for by future employer Normal Costs or employee contributions.

2. Actuarial Assumptions

Assumptions as to the occurrence of future events affecting the Retirement System such as:

- Rates of investment returns
- Increases in a member's salary
- Inflation
- The probability of mortality, turnover, disablement
- Retirement at each age and other relevant items

3. Actuarial Cost Method

A procedure for allocating the Actuarial Present Value of pension plan benefits between Normal Cost and Actuarial Accrued Liability.

4. Actuarial Present Value

The single sum amount required at the valuation date that is required to provide for anticipated future events based upon the terms of the plan and the Actuarial Assumptions.

5. Forecast

A projection of future benefit payments or contribution requirements based upon the terms of the plan, the current asset amounts, the Actuarial Assumptions, and additional assumptions as to the replacement of terminating employees with new employees.

6. Normal Cost

That portion of the Actuarial Present Value of future benefits that is assigned to the current year.

7. <u>Unfunded Actuarial Accrued Liability</u>

That portion of the Actuarial Accrued Liability that is not provided for by current actuarial value of assets.

8. Valuation Method

The method used to divide the cost of future benefits among the Actuarial Accrued Liability, the current year's Normal Costs, and future years' Normal Costs. The resulting current funding requirement is then determined as the current year's Normal Cost plus the payment necessary to amortize the Unfunded Actuarial Liability.

9. Vested Liability

That portion of the Actuarial Present Value of Accrued Benefits that a member would be entitled to if the member terminated employment with the employer as of the valuation date.

CERTIFICATION:

This report fairly represents the actuarial position of the Amesbury Retirement System contributing as of January 1, 2024, in accordance with generally accepted actuarial principles applied consistently with the preceding valuation. In our opinion, the actuarial assumptions used to compute actuarial accrued liability and normal cost are reasonably related to plan experience and to reasonable expectations, and represents our best estimate of anticipated plan experience.

The funded status measure is appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations. The funded status measure is appropriate for assessing the need for or the amount of future contributions. The funded status measure would be different if the measure reflected the market value of assets rather than the actuarial value of assets.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of such future measurements.

The report was prepared under the supervision of Daniel Sherman, an Associate of the Society of Actuaries and a Member of the American Academy of Actuaries, who takes responsibility for the overall appropriateness of the analysis, assumptions and results. Daniel Sherman is deemed to meet the General Qualification Standard and the basic education and experience requirement in the pension area. Based on over thirty years of performing valuations of similar complexity, Mr. Sherman is qualified by experience. Daniel Sherman has met the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Sherman Actuarial Services, LLC

Daniel W. Therman

Daniel W. Sherman, ASA, MAAA

October, 2024

BREAKOUTS

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Breakouts - Payroll Based

		<u>Total</u>	All Others	Housing	School	Sewer	Water
(1) Participants							
(a) Actives		295	141	9	132	S	11
(b) Inactives		116	110	0	1	2	3
(c) Retirees		256	134	10	102	4	9
(d) Disabled Retirees		16	15	-1	0	0	0
(e) Total		683	400	17	235	11	20
(2) Payroll of Active Participants	\$	18,048,080 \$	11,300,407 \$	426,872 \$	5,091,839 \$	348,202 \$	880,760
(3) Percentage of Payroll		100.00%	62.61%	2.37%	28.21%	1.93%	4.88%
(4) Fiscal 2018 Cost							
(a) ERI	\$	€	\$	S	\$	-	1
(b) Remaining Amortizations*		4,396,622	2,752,848	103,989	1,240,403	84,824	214,558
(c) Employer Normal Cost*		648,944	406,322	15,349	183,084	12,520	31,669
(d) Administrative Expenses*		225,000	140,879	5,322	63,478	4,341	10,980
(e) Total	S	5,270,566 \$	3,300,049 \$	124,660 \$	1,486,965 \$	101,685 \$	257,207
(5) Fiscal 2025 Cost	S	5,339,061 \$	4,139,432 \$	105,973 \$	3 685'892	124,930 \$	200,137
(6) Fiscal 2026 Cost	S	5,868,439 \$	3,674,393 \$	138,801 \$	1,655,641 \$	113,220 \$	286,384
(7) Fiscal 2027 Cost	S	6,136,521 \$	3,842,247 \$	145,142 \$	1,731,274 \$	118,392 \$	299,466
(8) Percentage of Total Cost		100.00%	62.61%	2.37%	28.21%	1.93%	4.88%

^{*}Appropriations are allocated based on the ratio of the division payroll to the total payroll.

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Breakouts - Actuarial Based

		Total	All Others		Housing		School		Sewer	≻ I	Water
(1) Participants											
(a) Actives		295	141		9		132		S		11
(b) Inactives		116	110		0		1		2		3
(c) Retirees		256	134		10		102		4		9
(d) Disabled Retirees		16	15				0		0		0
(e) Total		683	400		17		235		111		20
(2) Payroll of Active Participants	\$	18,048,080 \$	11,300,407	8	426,872	\$	5,091,839	\$	348,202 \$	88	880,760
(3) Normal Cost											
(a) Total Normal Cost	\$	2,517,158 \$	1,694,034	⇔	51,295	\$	663,219	8	29,310 \$	75	79,300
(b) Expected Employee Contributions		1,643,214	1,063,469		38,415		435,360		31,574	7_	74,396
(c) Administrative Expenses		225,000	151,424		4,585		59,283		2,620	(~)	7,088
(d) Net Employer Normal Cost (a) - (b)	\$	873,944 \$	630,565	\$	12,880	S	227,859	\$	(2,264) \$	7	4,904
(4) Actuarial Accrued Liability	\$	122,275,451 \$	84,984,001	⇔	3,580,813	\$	25,723,268	⇔	2,881,325 \$	5,106	5,106,044
(5) Assets*		78,815,264	54,778,259	• • •	2,308,090	·	16,580,484		1,857,220	3,291	3,291,210
(6) Unfunded Actuarial Accrued Liability (4) - (5)	S	43,460,187 \$	30,205,741	∽	1,272,723	⇔	9,142,784	∽	1,024,105 \$	1,81	,814,834
(7) ERI	S		ı	8	1	\$	•	\$			1
(8) Remaining Amortizations*		4,396,622	3,055,742		128,754		924,922		103,603	183	183,597
(9) Total Amortizations	\$	4,396,622 \$	3,055,742	↔	128,754	⇔	924,922	⇔	103,603 \$	183	183,597
(10) Fiscal 2024 Cost $(3d) + (9)$	S	5,270,566 \$	3,686,311	8	141,634	\$	1,152,781	\$	101,339 \$	188	188,501
(11) Fiscal 2025 Cost	S	5,339,061 \$	3,597,725	8	155,677	\$	1,267,081	\$	111,387 \$	207	207,191
Percentage of Total Cost		100.0%	67.4%		2.9%		23.7%		2.1%		3.9%
(12) Fiscal 2026 Cost	\$	5,868,439 \$	3,954,447	∽	171,113	S	1,392,714	~	122,431 \$	227	227,734
Percentage of Total Cost		100.0%	67.4%		2.9%		23.7%		2.1%		3.9%
(13) Fiscal 2026 Cost	\$	6,136,521 \$	4,135,093	8	178,929	\$	1,456,337	\$	128,024 \$	238	238,138
Percentage of Total Cost		100.0%	67.4%		2.9%		23.7%		2.1%		3.9%

^{*} Allocation is based on the ratio of the Unfunded Actuarial Accrued Liability