(a Component Unit of the City of Medford, Massachusetts)

Basic Financial Statements and Supplementary Information

Year Ended December 31, 2020



(A Component Unit of the City of Medford, Massachusetts)

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INDEPENDENT AUDITORS' REPORT

To the Medford Retirement Board Medford Contributory Retirement System Medford, Massachusetts

Report on the Financial Statements

We have audited the accompanying financial statements of the Medford Contributory Retirement System (the "System"), a component unit of the City of Medford, Massachusetts, as of and for the year ended December 31, 2020, and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the System as of December 31, 2020, and the respective changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, and the schedules listed under the required supplementary information section in the accompanying table of contents be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context.

We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Roselli, Clark & Associates Certified Public Accountants

Woburn, Massachusetts

April 28, 2021

MANAGEMENT'S DISCUSSION AND ANALYSIS

Our discussion and analysis of the Medford Contributory Retirement System's (the "System") financial performance provides an overview of the System's financial activities for the calendar year ended December 31, 2020. You should read it in conjunction with the basic financial statements, footnotes and required supplementary information that follows this discussion.

Financial Highlights

The System's funding objective is to meet long-term benefit obligations through contributions and investment income. The System's independent actuary estimates that the System is approximately 66% funded at December 31, 2020.

The System's fiduciary net position increased over \$18.5 million in 2020 to approximately \$225.6 million. Current year additions of nearly \$41.3 million exceeded deductions of approximately \$22.8 million. The current year increase in fiduciary net position was approximately \$4.5 million lower than the prior year. The System's investment performance for 2020, net of investment management fees, was over 11.5% versus 15.9% in 2019. The System's 2020 net investment return exceeded its long-term expected investment return, which is currently 7.25%.

Overview of the Financial Statements

The basic financial statements are comprised of a Statement of Fiduciary Net Position, Statement of Changes in Fiduciary Net Position, Notes to Financial Statements and Required Supplementary Information. The basic financial statements are prepared in accordance with accounting principles generally accepted in the United States of America, or GAAP; specifically, GASB Statement No. 67, *Financial Reporting for Pension Plans*.

The Statement of Fiduciary Net Position reports the System's assets, deferred outflows of resources, liabilities, deferred inflows of resources and fiduciary net position restricted for pensions. This statement reflects the System's investments at fair value, as well as cash, receivables and other assets and liabilities. Over time, the increase or decrease in fiduciary net position serves as a useful indicator of the System's financial health and condition.

The Statement of Changes in Fiduciary Net Position reports additions to and deductions from the System during the. This statement reflects contributions by members and participating employers along with deductions for retirement benefits, refunds, withdrawals and administrative expenses. Investment income, including realized and unrealized gains, during the year is also presented.

The Notes to the Financial Statements provide additional information that is essential for the reader to gain a full understanding of the data provided in the financial statements.

This report also includes Required Supplementary Information following the Notes to the Financial Statements that consist the schedules of changes in net pension liability and related ratios, investment returns and contributions and the notes to the schedule of contributions.

Financial Analysis

The condensed comparative Statements of Net Position for the two most recent years are as follows:

	Decem	ber 31,	Dollar	Percent Change	
	2020	2019	Change		
Assets:					
Cash and cash equivalents	\$ 2,583,073	\$ 2,089,354	\$ 493,719	24%	
Investments, at fair value	222,769,631	205,441,113	17,328,518	8%	
Receivables and other assets	322,559	303,745	18,814	6%	
Total Assets	225,675,263	207,834,212	17,841,051	9%	
Liabilities	72,066	775,391	(703,325)	-91%	
Fiduciary Net Position	\$ 225,603,197	\$ 207,058,821	\$ 18,544,376	9%	

Total assets at December 31, 2020 approximated \$225.6 million and principally consisted of investments recorded at fair value. Total asset increased by approximately \$17.8 million in 2020, due primarily to a positive investment portfolio performance of over 11.5%. Fluctuations in receivables and liabilities were due primarily to the timing of investment sales and purchases being completed.

The condensed comparative Statements of Changes in Fiduciary Net Position for the two most recent years are as follows:

		December 31,	Dollar	Percent
	2020	2019	Change	Change
Additions:				
Contributions	\$ 18,193,064	\$ 17,953,232	\$ 239,832	1%
Investment income, net	23,143,141	27,244,587	(4,101,446)	-15%
Total Additions	41,336,205	45,197,819	(3,861,614)	-9%
Deductions:				
Benefits and refunds to Plan members	22,432,439	21,759,576	672,863	3%
Administrative and other expenses	359,390	391,443	(32,053)	-8%
Total Deductions	22,791,829	22,151,019	640,810	3%
Change in Fiduciary Net Position	\$ 18,544,376	\$ 23,046,800	\$ (4,502,424)	-20%

Fiduciary net position increased over \$18.5 million in 2020, primarily as a result of net investment income of approximately \$23.1 million.

Contributions to the System's Fiduciary Net Position primarily include employer and employee contributions in addition to transfers from other retirement systems. Contributions for 2020 totaled nearly \$18.2 million versus \$18.0 million in 2019.

Employer contributions represent the largest source of System contributions. In 2020, employer contributions totaled approximately \$13.0 million, or 71%, in of total contributions. Employer contributions are actuarially determined. Employee contributions totaled approximately \$4.6 million in

2020, which was approximately \$304,000, or 6%, lower than the prior year. This decrease was due primarily to a decrease in the average number of active members within the System offset by the effect normal pay raises.

Other contributions decreased approximately \$210,000 year-over-year.

Investment income is presented net of associated investment management expenses. In 2020, the System reported over \$23.1 million in net investment income versus approximately \$27.2 million in 2019. The System's money-weighted rates of return for 2020 and 2019 were approximately 11.5% and 15.9%, respectively.

Deductions to the System's Fiduciary Net Position primarily include pension benefits to members and beneficiaries, refunds to inactive members, transfers and reimbursements to other Massachusetts public retirement systems and administrative expenses. Total deductions for 2020 increased approximately \$641,000 to nearly \$22.8 million versus \$22.2 million in 2019.

Pension benefits to members and beneficiaries represents the largest deduction from Fiduciary Net Position for the System. Pension benefits to members and beneficiaries represented approximately 93% of total 2020 and 2019 deductions. Pension benefits to members and beneficiaries increased approximately \$594,000, or 3%, in 2020. This increase was due to a modest increase in the average number of beneficiaries paid year-over-year coupled with the normal annual cost-of-living adjustments paid by the System.

In addition to the increase in pension benefits to members and beneficiaries, the System reported an approximate \$79,000 increase in transfers and reimbursements to other Massachusetts public retirement systems, which is a function of timing and employment trends/movements.

Administrative expenses decreased modestly year-over-year.

Overall Financial Position

The System's positive investment performance in 2020 enabled it to maintain an approximate 66% funded ratio at December 31, 2020. The System's 30-year investment return as published by PERAC exceeds the discount rate used by the System in its actuarial studies (7.25%). Provided the System continues to garner strong investment performances, it is possible that the System will achieve fully funded status on or before the expected date included in latest actuarial valuation of 2033.

The System maintains a large portion of its investments measured at NAV or using level 2 inputs. Some of these funds invest in private companies or real estate. The determination of the value of these investments is very subjective and the ultimate amount of gains and losses in some of these funds will not be determined until the underlying assets (i.e., the real estate or stock in the private companies) are sold. Furthermore, these types of investments are not as liquid as investments in savings accounts, money markets, certificates of deposits, government securities or debt and equity securities in publicly-held U.S. corporations. You should refer to Notes 2 and 4 to these financial statements.

Although the System has been successful in generating the yields necessary to achieve fully funded status in the required time frame, the System (like so many other institutional investors) has experienced a great deal of volatility in its investments. Management believes that the volatility in the worldwide markets may continue for the foreseeable future. Accordingly, management intends to actively monitor the System's investment positions to best maximize returns while mitigating risk as best it can.

Contacting the System's Financial Management Personnel

Our discussion and analysis is designed to provide the Medford Retirement Board, our membership, taxpayers, investors and creditors with a general overview of the System's financial results and to demonstrate the System's accountability for the funding it receives. If you have any questions about this report or need additional financial information, contact the Medford Retirement Board at 85 George P. Hassett Drive, Medford, MA 02155.

(A Component Unit of the City of Medford, Massachusetts)

STATEMENT OF FIDUCIARY NET POSITION DECEMBER 31, 2020

Assets:		
Cash and cash equivalents	\$	2,583,073
Investments:		
Fixed income securities		23,977,708
Equity securities		834
Mutual funds		147,864,475
PRIT funds		50,926,614
Receivables:		
Interest receivable		130,051
Contributions and other	_	192,508
Total Assets		225,675,263
Liabilities:		
Accounts payable and accrued expenses	_	72,066
Total Liabilities	_	72,066
Net Position Restricted for Pensions	\$	225,603,197

See accompanying notes to basic financial statements.

(A Component Unit of the City of Medford, Massachusetts)

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION YEAR ENDED DECEMBER 31, 2020

Additions:	
Employer contributions	\$ 12,989,190
Employee contributions	4,552,956
Other contributions	624,975
Total contributions	18,167,121
Investment income:	
Interest and dividends	4,195,499
Net appreciation in fair value of investments	20,233,690
Less investment management fees	(1,286,048)
Total net investment income	23,143,141
Other income	25,943
Total Additions	41,336,205
Deductions:	
Benefits and refunds to Plan members:	
Benefits to retirees and survivors	21,254,893
Member refunds	239,110
Transfers and reimbursements to other systems	938,436
Administrative expenses:	
Operations payroll and related personnel costs	260,632
Other	98,758
Total Deductions	22,791,829
Net Change in Net Position	18,544,376
Net Position Restricted for Pensions:	
Beginning of the year	207,058,821
End of the year	\$ 225,603,197

See accompanying notes to basic financial statements.

(A Component Unit of the City of Medford, Massachusetts)

NOTES TO THE FINANCIAL STATEMENTS AS OF AND FOR THE YEAR ENDED DECEMBER 31, 2020

1. DESCRIPTION OF THE PLAN

General – The Medford Contributory Retirement System (the "System") is a cost-sharing, multiple employer cost sharing defined benefit pension plan established and administered by the Medford Retirement Board under the provisions of Chapter 32 of the Massachusetts General Laws ("MGL"), as amended, to provide pension benefits for participants. The System is a component unit of the City of Medford, Massachusetts (the "City"). The City and the Medford Housing Authority contribute to the System.

Employees of the City (with the exception of teachers and certain administrative personnel employed by the School Department who participate in a separate plan) and the Medford Housing Authority are covered by the System. Participation in the System is mandatory immediately upon the commencement of employment for all permanent, full-time employees.

At December 31, 2020, membership in the System consisted of:

Retirees and beneficiaries currently receiving benefits	604
Active plan members	893
Inactive plan members	
Total membership	<u>1,575</u>

Plan Benefits – Massachusetts contributory retirement system benefits are uniform from one public pension system to another. For employees with service dates beginning before April 2, 2012, the System provides for retirement allowance benefits up to a maximum of 80% of a participant's highest consecutive three-year average annual rate of regular compensation. For those employees who began their service after April 2, 2012, the System provides for retirement allowance benefits up to a maximum of 80% of a participant's highest consecutive five-year average annual rate of regular compensation. Benefit payments are based upon a participant's age, length of creditable service, level of compensation and group classification.

The retirement allowance consists of two parts – an annuity and a pension. Participants' accumulated total deductions and a portion of the interest they generate constitute the annuity. The differential between the total retirement benefit and annuity is the pension.

Participants who resign from service and who are not eligible to receive a retirement allowance are entitled to request a refund of their accumulated total contributions. In addition, depending upon the number of years of creditable service, such employees may be entitled to receive interest, which has accrued on those contributions. A vested employee who has not reached their eligible retirement age and elects to leave their accumulated total deductions on deposit may apply for benefits upon reaching their eligible retirement age.

Survivor benefits are extended to eligible beneficiaries of participants whose death occurs prior to or following retirement.

Retirement Requirements – In order to receive retirement benefits, participants must meet one of the following two categories:

- 1) Normal Retirement Generally, normal retirement occurs between ages 65 and 67. However, most participants with a hire date before April 2, 2012, may retire after twenty years of creditable service or at any time after attaining age 55. For most participants hired on or after April 2, 2012, they must attain the age of 60 before they can retire. Participants with hire dates subsequent to January 1, 1978 must have a minimum of ten years' creditable service in order to retire at age 55 or 60, as applicable. Participants become vested after ten years of creditable service. Benefits commencing before age 65 are generally provided at a reduced rate. However, members working in certain occupations may retire with full benefits earlier than age 65.
- 2) Disability Retirements The System provides for both an ordinary and accidental disability retirement. An ordinary disability retirement is where a participant is permanently incapacitated from a cause unrelated to employment. An accidental disability retirement is where the disability is the result of an injury or illness received or aggravated in the performance of their duty.

The amount of benefits to be received in such cases is dependent upon several factors, including the age at which the disability retirement occurs, the years of creditable service, average regular compensation and veteran status. In addition, certain provisions are in place relative to death benefits for beneficiaries of employees who die in active service.

Public Availability of Financial Statements – The Medford Retirement Board issues a publicly available financial report that includes financial statements and required supplementary information for the System. That report may be obtained by writing to the Medford Retirement Board, 85 George P. Hassett Drive, Medford, MA 02155.

2. SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting – The financial statements of the System have been prepared on the accrual basis of accounting in accordance with generally accepted accounting principles in the United States if America, or GAAP. Employer contributions are recognized when due and the employer is legally required to provide the contributions. Member contributions are recognized in the period in which the contributions are due. Investment income is recognized in the period earned. Benefits and refunds are recognized when due and payable in accordance with the terms of the pension plan.

Use of Estimates – The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Cash and Cash Equivalents – Cash and cash equivalents include cash on hand, demand deposits and short-term holdings with original maturities of three months or less from the date of acquisition.

Investments – Investments are reported at fair value. When actively quoted observable prices are not available, the System generally uses either implied pricing from similar investments or valuation models based on net present values of estimated future cash flows (adjusted as appropriate for liquidity, credit, market and/or other risk factors).

The System categorizes its fair value measurements within the fair value hierarchy established by GAAP. This hierarchy is based on valuation inputs used to measure the fair value of the asset or liability. The three levels of the hierarchy are as follows:

- Level 1 Inputs are quoted prices in active markets for identical investments at the measurement date.
- Level 2 Inputs (other than quoted prices included in Level 1) are either directly or indirectly observable for the investment through correlation with market data at the measurement date and for the duration of the instrument's anticipated life.
- Level 3 Inputs reflect the System's best estimate of what market participants would use in pricing the investment at the measurement date.

The remaining investments not categorized under the fair value hierarchy are shown at net asset value ("NAV"). These are investments in non-governmental entities for which a readily determinable fair value is not available, such as member units or an ownership interest in partners' capital to which a proportionate share of net assets is attributed. Investments at NAV are commonly calculated by subtracting the fair value of liabilities from the fair value of assets.

3. SYSTEM ADMINISTRATION

The System is administered by a five-person Board consisting of the City Auditor, two members who are elected by the participants in or retired from the service of the System, one member appointed by the City Mayor and one member appointed by the other members of the Board.

At December 31, 2020, the Board was comprised as follows:

Ex-Officio Member: Ms. Aleesha Nunley-Benjamin (City Auditor) No specified date
Appointed Member: Mr. Robert Maiocco January 23, 2024
Elected Member: Mr. Patrick Ripley July 1, 2023
Elected Member: Mr. Rick Jordan (Chairperson) December 19, 2023
Board Appointed Member: Mr. James Vieira January 27, 2024

The Board is required to meet at least once a month and keep a record of its proceedings. The Board annually submits a financial statement of condition for the System with the Commissioner of the Massachusetts Public Employee Retirement Administration Commission, or PERAC. Retirement allowances are approved by the Board and, in certain circumstances, submitted to a PERAC for verification prior to payments being made. Expenses incurred by the System must be approved by two or more members of the Board.

4. DEPOSITS AND INVESTMENTS

MGL and PERAC regulations require the System to invest funds only in preapproved investment instruments, which include, but are not necessarily limited to, bank deposits, money markets, certificates of deposit, U.S. obligations, repurchase agreements, certain corporate bonds and equities and investment pools.

Investment Policy – The investment of the System's funds is the responsibility of the Board. The Board manages its investments using an investment policy that was last updated in November 2020. The investment objective is to ensure that the System's assets are invested to enhance and preserve principal, both in real and nominal terms. The System's investment policy seeks a long-term investment return of 7.25%.

The System's investment policy requires diversification within its investment portfolio. The System's portfolio target weights at the broad asset class level were as follows:

	Target
Asset Class	Allocation
Equities:	
Domestic - large cap	22.0%
Domestic - small/mid cap	7.0%
International	11.0%
Emerging Markets	8.0%
Fixed Income:	
Core bonds	12.0%
Emerging blended debt	4.0%
Global multi-sector	8.0%
TIPS	6.0%
Real Estate	10.0%
Private Equity	7.0%
Hedge Funds	5.0%

Investment Management – New England Pension Consultants provided investment advisory services to the System throughout all of 2020. At December 31, 2020, the System had contracted with eight investment managers.

Custody of Investments – People's United Bank is the custodian of the System's investment portfolio.

Custodial Credit Risk: Deposits – Deposits are subject to the risk of bank failure. The System may be unable to recover the full amount of its deposits in any one bank institution in the event of a bank failure. The System's policy for custodial credit risk of deposits is to rely on Federal Deposit Insurance Corporation ("FDIC") insurance coverage for the first \$250,000 of deposits held at each financial institution. At December 31, 2020, \$398,179 of the System's bank deposits was not covered by FDIC or other depository insurance.

Custodial Credit Risk: Investments – Custodial credit risk for investments is the risk that in the event of a failure of the counterparty the System will not be able to recover the value of its investments or collateral securities that are in the possession of the outside party. The System's policy for custodial credit risk of investments intends that all investments are either insured and/or registered in the name of the System. At December 31, 2020, the System was not exposed to custodial credit risk on its investments.

Fair Value Measurements: Investments – The following table presents the System's investments carried at fair value on a recurring basis at December 31, 2020:

	December 31,	Fair Value Measurements Using				
Investments by Fair Value Level	2020	Level 1	Level 2	Level 3		
Debt securities:						
U.S. government notes and obligations	\$ 12,574,850	\$ 5,461,111	\$ 7,113,739	\$ -		
Foreign government bonds	299,989	-	299,989	-		
Corporate bonds	11,102,869	11,102,869				
Total debt securities	23,977,708	16,563,980	7,413,728			
Equity securities	834	834	-	-		
Mutual funds	130,458,887		130,458,887			
Total investments by fair value level	154,437,429	\$ 16,564,814	\$ 137,872,615	\$ -		
Investments measured at NAV:						
Mutual funds	17,405,588					
PRIT funds	50,926,614					
Total investments measured at NAV	68,332,202					
Total investments	\$ 222,769,631					
		Unfunded	Redemption	Redemption		
Investments Measured at NAV by Asset Class	Fair Value	Commitments	Frequency	Notice Period		
Private equity mutual funds	\$ 17,405,588	\$ -	Varies	30 to 60 days		
PRIT funds	50,926,614	12,055,908	Monthly	30 days		
	\$ 68,332,202	\$ 12,055,908				

Investments measured at NAV include comingled/pooled funds in a private equity mutual fund and private equity fund and investments in the State Treasurer investment pool, referred to as PRIT funds.

Private equity funds generally include investments in which the System is a general partner in a private equity, venture capital fund or similar investment vehicle. The value of these investments are recorded at values determined in good faith by the general partners of the private equity and venture capital firms after consideration of pertinent information, including current financial position and operative results, price-earnings multiples and available market prices of similar companies' securities, the nature of the securities, marketability, restrictions on disposition and other appropriation and do not necessarily represent amounts which might ultimately be realized, since such amounts depend on future circumstances and cannot reasonably be determined until individual securities are liquidated. In addition, fair values of real estate funds are generally based on independent, third-party appraisals. By their very nature, these investments are illiquid and typically cannot be resold or redeemed. Distributions from each fund will be received as the underlying investments are liquidated. It is expected that the underlying assets for the funds will be liquidated over an average of ten years.

The State Treasurer investment pool is administered by the Commonwealth of Massachusetts' Pension Reserve Investment Management Board, or PRIM. The System maintains several Massachusetts Pension Reserve Investment Trust, or PRIT funds, each of which consists of a diverse set of investments that includes private equity, venture and real estate investments. The

determination of the fair value of these investments is very subjective and the period-end values are reported to the System as NAV. Investments in the PRIT funds are more liquid than investments in private equity and real estate holdings, but generally cannot be resold to third parties. The System may liquidate its investment in the PRIT funds at any time with less than thirty days' notice. Distributions from the PRIT funds may be received regularly and, upon receipt, are deposited into an accompanying short-term cash investment account.

Because of the inherent uncertainty of valuations used in many of the System's investments measured at NAV, estimated values may differ significantly from the values that would have been used had a readily available market for positions in privately held companies or the real estate existed at December 31, 2020. These differences could have a material adverse effect on the System's financial statements.

Concentration of Credit Risk: Investments – The following investments held by the System at December 31, 2020 represent approximately 73.2% of the System's total investments:

Rhumbline Advisers S&P 500 Pooled Index Fund	22.1%
Lazard International Strategic Equity Portfolio	11.7%
PRIM Alternative Investments Fund	9.2%
PRIM Core Real Estate Fund	8.8%
City of London Emerging Markets Country Fund	7.8%
Loomis Salyes MSFD Fund	7.8%
Rhumbline U.S. TIPS Pooled Fund	5.8%

Interest Rate Risk: Investments – Debt securities are subject to interest rate risk. Debt securities may be adversely affected by changes in interest rates, which may negatively affect the fair value of individual debt instruments. The System does not have a formal investment policy that limits investments maturities as a means of managing its exposure to fair value losses arising from increasing interest rates. In practice, the System mitigates this risk by managing the duration of its maturities.

At December 31, 2020, the System has the following investments and maturities:

		Investment Maturities (in years)					
Investment Type	Fair Value	Less than 1	1 to 5	6 to 10	More than 10		
U.S. Treasury notes	\$ 5,461,111	\$ -	\$ 5,461,111	\$ -	\$ -		
U.S. Agencies obligations	7,113,739	4,085,075	2,539,305	-	489,359		
Foreign government bonds	299,989	299,989	-	-	-		
Corporate bonds	11,102,869		1,684,216	8,775,943	642,710		
Investments with maturities	23,977,708	\$ 4,385,064	\$ 9,684,632	\$ 8,775,943	\$ 1,132,069		
Equity securities	834						
Mutual funds	147,864,475						
PRIT	50,926,614						
Investments without maturities	198,791,923						
Total investments	\$222,769,631						

Credit Risk: Investments – This is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. As previously noted, MGL and PERAC have enacted regulations to reduce this risk. In evaluating its credit risk, the System relies on credit ratings assigned by nationally recognized credit rating agencies such as Moody's Investor Services, Inc. and Standard and Poor's Financial Services, LLC. The System does voluntarily self-impose certain investment restrictions; however, those can be changed at the Board's discretion.

None of the System's equities, mutual funds or other pooled investments were subject to credit quality ratings from credit rating agencies. The following table summarizes the credit ratings for the System's fixed income securities:

		U.S.					
	G	overnment		Foreign			
Quality Rating	T	reasuries &	Go	vernment	Corporate		
(Moody's)		Agencies		Bonds	 Bonds		Total
Aaa	\$	5,966,162	\$	-	\$ 1,903,054	\$	7,869,216
A1		_		-	1,050,499		1,050,499
A2		-		-	2,352,914		2,352,914
A3		-		-	1,170,883		1,170,883
Baa1		1,815,373		-	-		1,815,373
Ba2		-		-	359,440		359,440
Not Rated		4,793,315		299,989	 4,266,079	_	9,359,383
	\$	12,574,850	\$	299,989	\$ 11,102,869	\$	23,977,708

At December 31, 2020, uninsured short-term investments with fair values of \$2,027,442 were reported as cash equivalents. These funds represent temporary holdings of excess cash resources. The System intends to reinvest these amounts in less than one year. Accordingly, the fair value of these short-term investments has been classified as cash equivalents in these financial statements.

Rate of Return – The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested. The 2020 money-weighted rate of return was approximately 11.5%

5. FUNDING

Employer Contributions – Under MGL, participating employers are assessed their share of the total retirement cost based on an independent actuarial study. Employer contributions totaled \$12,989,190 in 2020.

Employee Contributions – Employee contribution rates vary based on when an employee commended their creditable service. Active members contribute 5%, 7%, 8% or 9% of their gross regular compensation depending on when their creditable service commenced. Employees hired on or after January 1, 1979 contribute an additional 2% of their gross regular compensation over \$30,000.

Cost-of-Living Adjustments – Cost-of-living adjustments granted between 1981 and 1997 and any increase in other pension benefits imposed by the Commonwealth of Massachusetts during those years are the financial responsibility of the Commonwealth. The Commonwealth is expected to continue funding the cost-of-living amounts granted over this period for the duration of their selected retirement option. Cost-of-living adjustments granted after 1997 must be approved and funded by the System. Cost-of-living adjustments cannot exceed the greater of CPI or 3%. The System approved a 3% cost-of-living adjustment on the first \$16,000 of pension benefits.

6. NET PENSION LIABILITY

The System is statutorily required to adopt the funding schedule that will fully amortize the unfunded actuarial accrued liability by June 30, 2040. As of the latest actuarial valuation, the System has selected a funding schedule that fully amortizes the unfunded actuarial accrued liability by June 30, 2033.

The components of the System's net pension liability at December 31, 2020 were as follows (dollar amounts in thousands):

Total pension liability	\$ 343,471
Plan fiduciary net position	 225,603
Net pension liability	\$ 117,868

Plan fiduciary net position as a

percentage of total pension liability 65.7%

The total pension liability was determined by an actuarial valuation as of December 31, 2019 and rolled forward to December 31, 2020. The significant actuarial assumptions used in the actuarial valuation report were as follows:

Actuarial cost method: Individual entry age normal

Asset valuation method: Market value
Investment rate of return: 7.25% per year
Projected salary increases: 3.50% per year

Cost of living adjustments: 3% on the first \$16,000 of benefits

Mortality rates: Represented by the various SOA Pub-2010 Public

Retirement Plans Mortality Tables specific to group, pre-retirement versus post-retirement, disabled and beneficiaries, with Scale MP-2019 improvements until

2025

Discount Rate – The discount rate used to measure the total pension liability in the December 31, 2020 actuarial valuation was 7.25%. The projection of cash flows used to determine the discount rate assumed plan member contributions were made at the current contribution rate and that employer contributions will be made at rates equal to the actuarially-determined contribution rates and the member rate. Based on those assumptions, the System's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Expected Rate of Return – The System's investment policy targets a nominal rate of return of 7.25%. This long-term expected rate of return is presented neither in arithmetic nor geometric means.

Sensitivity Analysis – The following illustrates the net position liability at December 31, 2020 calculated using the current discount rate of 7.25%, as well as the projection of what the net position liability would be if it were calculated using a discount rate that is 1.0% lower or higher than the current rate (dollar amounts in thousands):

Current							
Discount Rate	1%	Decrease	Cu	rrent Rate	1% Increase		
7.25%	\$	152,508	\$	117,868	\$	88,198	

7. LEGALLY REQUIRED RESERVE ACCOUNTS

Net position restricted for pensions at December 31, 2020 was comprised of the following legally required reserves:

Description	Amount	Purpose
Annuity Savings Fund	\$ 50,345,303	Active members' contribution balance
Annuity Reserve Fund	15,777,288	Retired members' contribution balance
Pension Fund	4,846	Amounts appropriates to fund future retirement
Military Service Fund	4,868	Members' contributions while on military leave
Pension Reserve Fund	159,470,892	Remaining net position
	\$ 225,603,197	

8. COMMITMENTS AND CONTINGENCIES

General – The System is subject to a variety of claims that arise from time to time in the ordinary course of business. Although management of the System currently believes that resolving claims against the System, individually or in aggregate, will not have a material adverse impact on the System's financial position or its results of operations, these matters are subject to inherent uncertainties and management's views of these matters may change in the future.

COVID-19 – The COVID-19 pandemic has resulted in global economic slowdowns and disruptions that have and could continue to affect U.S. and global markets and economies. The System's ability to meet its long-term investment return projections and targets is highly dependent on these markets and economies. The global response to the COVID-19 pandemic is beyond the System's control and the likelihood and extent of further market volatility cannot be predicted.

* * * * * *

(A Component Unit of the City of Medford, Massachusetts)

REQUIRED SUPPLEMENTARY INFORMATION - UNAUDITED

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS

(dollar amounts in thousands)

	 2020	 2019	_	2018	 2017	2016	 2015	 2014
Total pension liability: Service cost Interest Differences between expected and actual experience Changes in assumptions Benefit payments, including refunds	\$ 6,952 23,989 - (22,432)	\$ 6,330 21,662 11,095 24,449 (21,760)	\$	6,116 21,204 - (21,088)	\$ 6,116 20,285 6,081 - (19,415)	\$ 5,909 19,767 - (18,536)	\$ 5,709 21,229 (5,236) (13,742) (18,556)	\$ 5,976 20,588 - - (17,749)
Net change in total pension liability	 8,509	 41,776		6,232	 13,067	 7,140	 (10,596)	 8,815
Total pension liability - beginning of year	 334,962	 293,186		286,954	273,887	 266,747	 277,343	 268,528
Total pension liability - end of year (a)	\$ 343,471	\$ 334,962	\$	293,186	\$ 286,954	\$ 273,887	\$ 266,747	\$ 277,343
Plan fiduciary net position: Contributions - employer Contributions - employee Contributions - nonemployer contributing entities Net investment income Benefit payments, including refunds Administrative expenses Other Net change in plan fiduciary net position	\$ 12,989 4,552 625 23,144 (22,432) (359) 25 18,544	\$ 12,254 4,857 835 27,244 (21,760) (391) 8 23,047	\$	11,560 4,200 1,231 (5,307) (21,088) (489) 43 (9,850)	11,175 3,960 998 21,508 (19,415) (321) 17 17,922	\$ 11,000 3,928 1,208 8,196 (18,536) (310) 44 5,530	\$ 10,500 3,723 269 465 (18,010) (256) 33 (3,276)	\$ 10,011 3,660 638 8,741 (17,118) (272) 71 5,731
Plan fiduciary net position - beginning of year	 207,059	 184,012		193,862	 175,940	 170,410	 173,686	 167,955
Plan fiduciary net position - end of year (b)	\$ 225,603	\$ 207,059	\$	184,012	\$ 193,862	\$ 175,940	\$ 170,410	\$ 173,686
Net pension liability - end of year (a) - (b)	\$ 117,868	\$ 127,903	\$	109,174	\$ 93,092	\$ 97,947	\$ 96,337	\$ 103,657
Plan fiduciary net position as a percentage of the total pension liability	65.7%	61.8%		62.8%	67.6%	64.2%	63.9%	62.6%
Covered payroll	\$ 47,613	\$ 46,003	\$	42,469	\$ 41,033	\$ 40,703	\$ 39,326	\$ 37,864
Net pension liability as a percentage of covered payroll	247.6%	278.0%		257.1%	226.9%	240.6%	245.0%	273.8%

These schedules are presented to illustrate the requirement to show information for ten years. However, until a full ten-year trend is completed, information is presented for those years in which information is available.

See accompanying independent auditors' report.

MEDFORD CONTRIBUTORY RETIREMENT SYSTEM (A Component Unit of the City of Medford, Massachusetts)

REQUIRED SUPPLEMENTARY INFORMATION - UNAUDITED

SCHEDULE OF CONTRIBUTIONS

			Co	ntributions in						
			Re	elation to the						
	4	Actuarially	1	Actuarially	C	Contribution				Contributions as a
For Fiscal Year	Ι	Determined	I	Determined	I	Deficiency				Percentage of
Ended June 30,	C	ontribution		Contribution		(Excess)		Co	vered Payroll	Covered Payroll
2020	\$	12,989,190	\$	12,989,190	\$		_	\$	47,613,178	27.3%
2019		12,253,953		12,253,953			-		46,003,071	26.6%
2018		11,560,340		11,560,340			-		42,469,301	27.2%
2017		11,174,776		11,174,776			-		41,033,141	27.2%
2016		11,000,000		11,000,000			-		40,702,740	27.0%
2015		10,500,000		10,500,000			-		39,326,319	26.7%
2014		10,011,299		10,011,299			-		37,863,532	26.4%

SCHEDULE OF INVESTMENT RETURNS

	Annual Money-
For Fiscal Year	Weighted Rate of
Ended June 30,	Return *
2020	11.740/
2020	11.54%
2019	15.90%
2018	-2.14%
2017	12.44%
2016	5.13%
2015	0.28%
2014	5.54%

These schedules are presented to illustrate the requirement to show information for ten years. However, until a full ten-tear trend is completed, information is presented for those years in which information is available.

See accompanying independent auditors' report.

^{*} Net of investment expenses.

MEDFORD CONTRIBUTORY RETIREMENT SYSTEM (A Component Unit of the City of Medford, Massachusetts)

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION AS OF AND FOR THE YEAR ENDED DECEMBER 31, 2020

A. CHANGES OF BENEFIT TERMS

The System may be amended or terminated in whole or in part at any time by the Massachusetts Legislature, provided that no such modification, amendment or termination shall be made that would deprive a current member of superannuation pension rights or benefits provided under applicable laws of Massachusetts, if such member has paid the stipulated contributions specified in sections or provisions of such laws. There were no significant changes to the System's benefit terms in 2020.

B. SIGNIFICANT ACTUARIAL ASSUMPTIONS AND METHODS

The significant actuarial assumptions used in the most current actuarial valuation report included:

Actuarial cost method: Individual entry age normal

Asset valuation method: Market value
Investment rate of return: 7.25% per annum
Projected salary increases: 3.50% per year

Cost of living adjustments: 3% on the first \$16,000 of benefits

Mortality rates: Represented by the various SOA Pub-2010 Public

Retirement Plans Mortality Tables specific to group, pre-retirement versus post-retirement, disabled and beneficiaries, with Scale MP-2019 improvements until

2025



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INDEPENDENT AUDITORS' REPORT ON AUDIT OF SPECIFIC ELEMENTS, ACCOUNTS AND ITEMS OF FINANCIAL STATEMENTS

To the Medford Retirement Board Medford Contributory Retirement System Medford, Massachusetts

We have audited the accompanying schedule of employer allocations of the Medford Contributory Retirement System (the "System"), a component unit of the City of Medford, Massachusetts, as of and for the year ended December 31, 2020. We have also audited the total for all entities of the columns titled net pension liability, total deferred outflows of resources, total deferred inflows of resources and total pension expense (specified column totals) included in the accompanying schedule of pension amounts by employer of the System as of and for the year ended December 31, 2020, and the related notes thereto.

Management's Responsibility for the Schedules

Management is responsible for the preparation and fair presentation of these schedules in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Audit Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer, whether due to fraud or error. In making those risk assessments, the auditors consider internal control relevant to the entity's preparation and fair presentation of the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense for the total of all participating entities of the System as of and for the year ended December 31, 2020, in accordance with accounting principles generally accepted in the United States of America.

Other Matters

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the System as of and for the year ended December 31, 2020, and our report thereon, dated April 28, 2021, expressed an unmodified opinion on those financial statements.

Roselli, Clark & Associates Certified Public Accountants

Woburn, Massachusetts

April 28, 2021

(A Component Unit of the City of Medford, Massachusetts)

SCHEDULE OF EMPLOYER ALLOCATIONS YEAR ENDED DECEMBER 31, 2020

	Actual	Employer
	Employer	Allocation
Employer	Contributions	Percentage
City of Medford	\$ 12,310,219	94.77%
Medford Housing Authority	678,971	5.23%
Total	\$ 12,989,190	100.00%

See notes to schedule of employer allocation and schedule of pension amounts by employer.

(A Component Unit of the City of Medford, Massachusetts)

SCHEDULE OF PENSION AMOUNTS BY EMPLOYER YEAR ENDED DECEMBER 31, 2020

	City of Medford	Medford Housing Authority	Total
Net pension liability	\$ 111,706,915	\$ 6,161,202	\$ 117,868,117
Deferred outflows of resources:			
Differences between actual and expected experience Changes of assumptions	\$ 7,321,048 14,171,681	\$ 403,792 781,641	\$ 7,724,840 14,953,322
Changes in proportion and differences between employer contributions and proportionate share of contributions	254,432	192,866	447,298
Total deferred outflows of resources	\$ 21,747,161	\$ 1,378,299	\$ 23,125,460
Deferred inflows of resources: Net difference between projected and actual investment earnings	ф. 0.220.55 7	D 452 40 (Ф 0.672.062
on pension plan investments Changes in proportion and differences between employer contributions and proportionate share of contributions	\$ 8,220,557 192,866	\$ 453,406 254,432	\$ 8,673,963 447,298
Total deferred inflows of resources	\$ 8,413,423	\$ 707,838	\$ 9,121,261
Pension expense (income):			
Proportionate share of plan pension expense Proportionate share of plan pension revenue Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	\$ 17,711,676 (444,940) 108,582	•	\$ 18,688,564 (469,481)
Total employer pension expense (income)	\$ 17,375,318	\$ 843,765	\$ 18,219,083

See notes to schedule of employer allocation and schedule of pension amounts by employer.

(A Component Unit of the City of Medford, Massachusetts)

NOTES TO PENSION SCHEDULES AS OF AND FOR THE YEAR ENDED DECEMBER 31, 2020

A. INTRODUCTION

GASB Statement No. 68, Accounting and Financial Reporting for Pensions, establishes financial reporting requirements for governments that provide employees with pension benefits. GASB 68 requires employers to recognize a net pension liability or net pension asset as employees earn pension benefits. Employers participating in the Medford Contributory Retirement System (the "System") will recognize their proportionate share of the collective pension amounts for all benefits provided by the Retirement System.

B. METHOD OF PROPORTIONATE SHARE ALLOCATION

The basis for the proportionate share allocation by employer as found in the Schedule of Employer Allocations and Schedule of Pension Amounts by Employer is consistent with the manner in which employer contributions to the System are determined. The net pension liability, deferred outflows of resources, deferred inflows of resources and pension expense is based upon actual historical employer contributions to the System from the census data submitted by the System for pay periods ending December 31, 2020.

C. EXPECTED FUTURE AMORTIZATION OF DEFERRED BALANCES

The following table summarizes the expected amortization of the deferred outflows of resources and inflows of resources into pension expense.

Measurement Period	City of		Medford Housing	T. 4.1
Ended December 31:	 Medford	_	Authority	 Total
2021	\$ 5,460,147	\$	223,924	\$ 5,684,071
2022	6,114,897		337,208	6,452,105
2023	2,392,550		110,613	2,503,163
2024	(628,614)		(6,526)	(635,140)
2025	 (5,242)		5,242	
	\$ 13,333,738	\$	670,461	\$ 14,004,199