



LAWRENCE CONTRIBUTORY RETIREMENT SYSTEM

FINANCIAL REPORTING AND DISCLOSURES Governmental Accounting Standards Board Statements 67 and 68

**Disclosures as of
December 31, 2024**

KMS Actuarial, LLC
52 Hunt Road
Kingston, NH 03848

April, 2025



April 28, 2025

Board Members

Lawrence Contributory Retirement System
354 Merrimack Street, Suite 302
Lawrence, MA 01843

Dear Board Members:

We are pleased to present the enclosed report providing financial reporting and disclosures under Governmental Accounting Standards Board (GASB) Statement No. 67, Financial Reporting for Pension Plans (GASB 67), and GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68) for the Lawrence Contributory Retirement System and participating employers as of December 31, 2024. Results are based on liabilities developed in an actuarial valuation as of January 1, 2024 and rolled forward to the plan's measurement date of December 31, 2024.

The Principal Valuation Results are provided in Section 1. The Notes to the Financial Statements and the Required Supplementary Information are provided in Sections 2 and 3, respectively. Employer Reporting Amounts Under GASB 68 are provided in Section 4. Finally, a Glossary of Terms is provided in Section 5.

The financial reporting and disclosures contained in this report are based on the member data provided by the Lawrence Contributory Retirement Board, asset information reported to the Public Employee Retirement Administration Commission (PERAC) by the Retirement Board and plan provisions contained in Chapter 32 of the Massachusetts General Laws. Although we did not audit the data used in the valuation and disclosure calculations, we believe that the information is complete and reliable.

Liabilities presented in this report are based on a long-term investment return rate assumption of 7.00%, net of investment expense, compounded annually.

This report was completed in accordance with generally accepted actuarial standards and procedures, and conforms to the Code of Professional Conduct of the American Academy of Actuaries. The actuarial assumptions used in the determination of costs are reasonably related to the experience of the System and to reasonable expectations, and represent our best estimate of anticipated long-term experience under the System.

K M S A C T U A R I E S

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Future actuarial valuation results may differ significantly from the current results presented in this report. Examples of potential sources of volatility include plan experience differing from that anticipated by the economic or demographic assumptions, the effect of new entrants, changes in economic or demographic assumptions, the effect of law changes and the delayed effect of smoothing techniques. The potential range of future measurements was outside the scope of the project.

Our valuation follows generally accepted actuarial methods and we perform such tests as we consider necessary to assure the accuracy of the results. The amounts presented in this report have been appropriately determined according to the actuarial assumptions and methods stated herein.

This report is intended for the sole use of the Lawrence Contributory Retirement Board and may only be provided to other parties in its entirety, unless expressly authorized by KMS Actuaries. Further, it is intended to provide information to comply with the stated purpose of the report. It may not be appropriate for other purposes.

KMS Actuaries is completely independent of the Lawrence Contributory Retirement System and any of its officers or key personnel. None of the actuaries signing this report or anyone closely associated with them has a relationship with the Lawrence Contributory Retirement System, other than as consulting actuary for this assignment, that would impair our independence.

The undersigned credentialed actuaries agree that the analysis, assumptions and results are overall reasonable. They are Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinion contained herein. They are available to answer any questions with regard to this report.

Respectfully submitted,



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EXECUTIVE SUMMARY

GASB 67 and GASB 68

In June 2012, the GASB approved two related Statements that significantly changed the way pension plans and governments account and report pension liabilities. Effective for plans with fiscal years beginning after June 15, 2013, **GASB Statement No. 67**, *Financial Reporting for Pension Plans*, replaced the requirements of Statement No. 25 and effective for employers with fiscal years beginning after June 15, 2014, **GASB Statement No. 68**, *Accounting and Financial Reporting for Pensions*, replaced the requirements of Statement No. 27.

The pension standards reflect changes from those previously in place regarding how governments calculate total pension liability and pension expense. Further, the standards contain requirements for disclosing information in the notes to financial statements and presenting required supplementary information following the notes.

GASB 67 requires defined benefit pension plans, such as the Lawrence Contributory Retirement System, to present a statement of fiduciary net position (pension plan assets) and a statement of changes in fiduciary net position. Further, the statement requires that notes to financial statements include descriptive information such as the types of benefits provided, the classes of plan members covered and the composition of the pension plan's retirement board. Finally, GASB 67 requires pension plans to present in required supplementary information the sources of the changes in the net pension liability and information about the actuarially determined contributions compared with the actual contributions made to the plan and related ratios.

GASB 67 and GASB 68 require projected benefit payments be discounted to their actuarial present value using the single rate that reflects a long-term expected rate of return on pension plan investments to the extent that the pension plan's assets are sufficient to pay benefits and pension plan assets are expected to be invested using a strategy to achieve that return and a tax-exempt, high-quality municipal bond rate to the extent that the conditions for use of the long-term expected rate of return are not met.

GASB 68 establishes standards for measuring and recognizing liabilities, deferred outflows of resources, deferred inflows of resources and pension expense by state and local governments.

The effective date for GASB 67 is for plan years beginning after June 15, 2013, which is the fiscal year ending December 31, 2014 for the Lawrence Contributory Retirement System. The effective date for GASB 68 is for employers' fiscal years beginning after June 15, 2014. The disclosures prepared as of December 31, 2024 (the measurement date) presents information to assist the Lawrence Contributory Retirement Board in providing the required information under GASB 68 to participating employers.

GASB Statement No. 73, *Accounting and Financial Reporting for Pensions and Related Assets That Are Not within the Scope of GASB Statement 68, and Amendments to Certain Provisions of GASB Statements 67 and 68*, clarifies the application of certain provisions of Statements 67 and 68 with regard to the following issues:

- (1) Information about investment-related factors that significantly affect trends in the amounts reported for GASB 67 and GASB 68 should be limited to those factors over which the pension plan or participating governments have influence (such as an investment policy) and
- (2) The contribution-related schedules in the RSI should exclude amounts associated with payables to the pension plan that arose in a prior fiscal year.

GASB Statement No. 82, *Pension Issues - An Amendment of GASB Statements No. 67, No. 68, and No. 73*, clarifies the definition of covered payroll, that a deviation from the Actuarial Standards of Practice with respect to selection of assumptions is not considered to be in conformity with GASB 67, GASB 68 and GASB 73, and that employer-paid member contributions are to be classified as plan member contributions.

EXECUTIVE SUMMARY

Background

We have completed the report providing financial reporting and disclosures under Governmental Accounting Standards Board (GASB) Statement Numbers 67 and 68 for the Lawrence Contributory Retirement System as of December 31, 2024. The information in this report is based upon census data provided by the Retirement Board and asset information reported to the Public Employee Retirement Administration Commission (PERAC) by the Lawrence Contributory Retirement Board.

Primary Purpose

This report was prepared for the Retirement Board for the purposes described below:

- ◆ Measure and disclose the financial condition of the System as of the disclosure date,
- ◆ Develop the changes in the net pension liability, and
- ◆ Develop liabilities, deferred outflows of resources, deferred inflows of resources and pension expense by member unit.

A summary of principal results from the current disclosures and prior disclosures follows.

Measurement Date	December 31, 2024	December 31, 2023	% Change
Valuation Date	January 1, 2024	January 1, 2024	
Membership Data			
Active Plan Members	1,829	1,834	(0.3%)
Inactive Members Currently in Receipt	950	931	2.0%
Inactive Members Deferred	816	813	0.4%
Total Plan Members	3,595	3,578	0.5%
Covered Payroll	\$102,988,393	\$93,154,471	10.6%
Net Pension Liability			
Discount Rate	7.00%	7.00%	
Total Pension Liability (TPL)	\$568,695,781	\$549,222,601	3.5%
Fiduciary Net Position (FNP)	370,303,555	337,249,374	9.8%
Net Pension Liability (NPL)	\$198,392,226	\$211,973,227	(6.4%)
FNP as % of TPL	65.1%	61.4%	
Pension Expense			
Pension Expense	\$20,955,667	\$16,989,129	23.3%
Deferred Outflows	\$20,296,922	\$32,524,231	
Deferred Inflows	\$3,407,202	\$6,755,644	
Recognition Period (Years)	5.84	5.84	

EXECUTIVE SUMMARY

Fiduciary Net Position

Pension plan investments are reported at market value as of the measurement date. The fiduciary net position as of the current and prior measurement dates are shown in Section 1, Fiduciary Net Position.

Total Pension Liability

The Total Pension Liability is based on liabilities developed in an actuarial valuation performed as of January 1, 2024 and rolled forward to the plan's measurement date of December 31, 2024 and is shown in Section 1, Total Pension Liability.

Benefit Changes

All benefit provisions remained the same from the prior measurement date. The Plan provisions used in these disclosures are detailed in Section 5, Summary of Plan Provisions, in the most recent funding actuarial report.

Assumption Changes

All Actuarial Assumptions and Methods used in these disclosures are the same as the last measurement date. The Actuarial Assumptions and Methods used in these disclosures are detailed in Section 6, Actuarial Assumptions and Methods, in the most recent funding valuation report.

Pension Expense

The Pension Expense for the fiscal year ending December 31, 2024 is \$20,955,667 and is developed in Exhibit 4.2. Pension Expense, as well as the Net Pension Liability and Deferred Outflows of Resources and Deferred Inflows of Resources, are developed for each member unit and are shown in Appendix C. Amounts by employer are developed using a proportionate share, the proportion of each employer's contribution to the aggregate amount of employer contributions, as shown in Exhibit 4.3.

SECTION 1 - PRINCIPAL VALUATION RESULTS

Fiduciary Net Position

Asset information reported to the Public Employee Retirement Administration Commission (PERAC) was provided by the Lawrence Contributory Retirement Board. The Trust Fund Composition, Asset Activity and the Gain or Loss on Pension Plan Investments for the current and prior fiscal years are as follows:

Fiscal Year Ended December 31

2024

2023

Trust Fund Composition at Fiscal Year-End			
Cash	\$	735,504	\$ 724,615
Individually Owned Short Term Investments		0	0
Fixed Income Securities		0	0
Equities (at market value)		0	0
Pooled Short Term Funds		0	0
Pooled Domestic Equity Funds		0	0
Pooled International Equity Funds		0	0
Pooled Global Equity Funds		0	0
Pooled Domestic Fixed Income Funds		0	0
Pooled International Fixed Income Funds		0	0
Pooled Global Fixed Income Funds		0	0
Pooled Alternative/Private Equity		0	0
Pooled Real Estate Funds		0	0
Pooled Domestic Balanced Funds		0	0
Pooled International Balanced Funds		0	0
Hedge Funds		0	0
PRIT Cash		1,611,501	1,613,015
PRIT Fund		368,605,232	335,293,539
Interest Due and Accrued		0	0
Prepaid Expenses		10,629	13,685
Accounts Receivable (A)		828,798	949,471
Land		0	0
Buildings		0	0
Accumulated Depreciation - Buildings		0	0
Accounts Payable (A)		(1,488,109)	(1,344,951)
Auditor or Other Adjustments		0	0
Total Market Value of Assets	\$	370,303,555	\$ 337,249,374

SECTION 1 - PRINCIPAL VALUATION RESULTS

Fiduciary Net Position		2024	2023
Fiscal Year Ended December 31			
Asset Activity			
Market value as of beginning of year	\$ 337,249,374	\$ 302,914,197	
Contributions - employer	25,657,801	24,823,367	
Contributions - member	11,121,201	9,716,694	
Net investment income	30,611,357	32,839,008	
Benefit payments, including refunds of member contributions	(33,729,891)	(32,484,061)	
Administrative expenses	(606,287)	(559,831)	
Other	0	0	
Market Value as of end of year	\$ 370,303,555	\$ 337,249,374	
Money-Weighted Rate of Return	8.97%	10.94%	
(Gain) / Loss on Pension Plan Investments			
Projected earnings	\$ 23,614,473	\$ 21,162,395	
Actual earnings	30,611,357	32,839,008	
(Gain) / Loss on pension plan investments	\$ (6,996,884)	\$ (11,676,613)	

SECTION 1 - PRINCIPAL VALUATION RESULTS

Total Pension Liability

The Total Pension Liability, developed using the Entry Age Normal funding method, is the portion of the actuarial present value of projected benefit payments that is attributed to past periods of member service. The total pension liability as of the December 31, 2024 measurement date was developed from an actuarial valuation as of January 1, 2024 and rolled forward to the pension plan's fiscal year-end.

The Service Cost is the portion of the actuarial present value of projected benefit payments that is attributed to a valuation year. Only active employees who have not reached the age at which the probability of retirement is 100% incur a service cost.

Actuarial gains and losses arise from the difference between estimates and actual experience, excluding amounts related to benefit changes and changes in assumptions or other inputs.

The development of the Total Pension Liability from the beginning of the measurement period, December 31, 2023 to the end of the measurement period, December 31, 2024 is shown below:

Measurement Date

December 31, 2024

1. Total Pension Liability, beginning of year		
a. Actives	\$	233,979,747
b. Retired and Disabled Members and Beneficiaries		307,437,847
c. Inactive Members		7,805,007
d. Total Pension Liability at 7% (a. + b. + c.)	\$	549,222,601
2. Service Cost	\$	15,998,674
3. Benefit Payments		(33,729,891)
4. Interest [7% x (1.d. + 2. + .5 x 3)]	\$	37,204,397
5. Changes of benefit terms		-
6. Differences between expected and actual experience		-
7. Changes of assumptions or other inputs		-
8. Total Pension Liability, end of year		
a. Actives	\$	267,476,910
b. Retired and Disabled Members and Beneficiaries		292,867,514
c. Inactive Members		8,351,357
d. Total Pension Liability at 7% (a. + b. + c.)	\$	568,695,781

SECTION 2 - NOTES TO THE FINANCIAL STATEMENTS

Plan Description

Plan administration

The Lawrence Contributory Retirement System (the "System") is a cost-sharing, multiple-employer defined benefit pension plan that provides pensions for eligible employees of the City of Lawrence. The System is a member of the Massachusetts Contributory Retirement System and is governed by Chapter 32 of the Massachusetts General Laws. The System does not have the authority to amend benefit provisions.

The System is governed by a Retirement Board made up of five elected and appointed members.

Plan membership

At December 31, 2024, pension plan membership consisted of the following:

Inactive plan members or beneficiaries currently receiving benefits	950
Inactive plan members entitled to but not yet receiving benefits	816
Active plan members	<u>1,829</u>
	3,595

Benefits provided

The System provides retirement, disability and death benefits. Retirement benefits are determined as a percentage of the member's 3-year (5-year for members hired after April 1, 2012) final average compensation times the member's years of service. The percentage is based on the age of the member at retirement and his or her Group classification. Cost-of-living adjustments of 3% of the first \$14,000 of the annual retirement allowance are provided at the discretion of the System's Retirement Board. A summary of the benefits is outlined in the January 1, 2024 actuarial valuation report.

Contributions

Plan members are required to contribute a percentage of their annual compensation that varies according to their membership date, as follows:

Prior to 1975	5% of Salary
1975 – 1983	7% of Salary
1984 – June 30, 1996	8% of Salary
July 1, 1996 – present	9% of Salary
1979 – present	An additional 2% of Salary in excess of \$30,000.
Group 1 members hired on or after April 2, 2012	6% of Salary with 30 or more years of creditable service.

Employer contributions are determined in accordance with the requirements set forth in Section 22D and Section 22F of Chapter 32 of the Massachusetts General Laws ("M.G.L."). The appropriation is comprised of the annual employer normal cost and amortization payments to pay the unfunded actuarial accrued liability.

SECTION 2 - NOTES TO THE FINANCIAL STATEMENTS

Net Pension Liability

The components of the Net Pension Liability at December 31, 2024, were as follows:

Total Pension Liability	\$ 568,695,781
Fiduciary Net Position	(370,303,555)
Net Pension Liability	\$ 198,392,226

Fiduciary Net Position as a percentage of the Total Pension Liability 65.1%

Actuarial assumptions

The Total Pension Liability was determined by an actuarial valuation as of January 1, 2024, rolled forward to the measurement date of December 31, 2024 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.5% per year
Salary increases	Group 1: 6% - 4.25%, based on service Group 4: 7% - 4.75%, based on service
Investment rate of return	7%, net of pension plan investment expense, including inflation

Mortality rates were based on the RP-2014 Blue Collar Mortality Table with full generational mortality improvement using Scale MP-2020. For disabled lives, the mortality rates were based on the RP-2014 Blue Collar Mortality Table set forward one year with full generational mortality improvement using Scale MP-2020.

SECTION 2 - NOTES TO THE FINANCIAL STATEMENTS

Long-Term Real Rates of Return

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of geometric real rates of return for each major asset class included in the pension plan's target asset allocation as of December 31, 2024 (see the discussion of the pension plan's investment policy) are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rates of Return ¹
Global Equity	36.0%	4.61%
Core Fixed Income	15.0%	2.60%
Value Added Fixed Income	9.0%	5.30%
Private Equity	16.0%	7.80%
Real Estate	10.0%	4.10%
Timberland	4.0%	4.10%
Portfolio Completion Strategies	10.0%	4.10%
Total	100%	

¹ Provided by Pension Reserves Investment Management Board. Inflation of 2.5% is added to the long-term expected real rates of return to approximate the long-term expected rate of return.

SECTION 2 - NOTES TO THE FINANCIAL STATEMENTS

Discount Rate

The discount rate used to measure the Total Pension Liability is 7%. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current contribution rates and that contributions from participating employers will be made in accordance with Sections 22D and 22F of Chapter 32 of the Massachusetts General Laws. Based on those assumptions, the pension plan's Fiduciary Net Position was projected to be available to make all projected 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.

Sensitivity of the Net Pension Liability to Changes in the Discount Rate:

The following presents the Net Pension Liability calculated using the discount rate of 7%, as well as what the Net Pension Liability would be if it were calculated using a discount rate 1-percentage point lower (6%) or 1-percentage point higher (8%) than the current rate:

	1% Decrease (6%)	Current Discount Rate (7%)	1% Increase (8%)
Total Pension Liability	\$ 633,542,384	\$ 568,695,781	\$ 513,989,731
Fiduciary Net Position	370,303,555	370,303,555	370,303,555
Net Pension Liability	\$ 263,238,829	\$ 198,392,226	\$ 143,686,176

SECTION 3 - REQUIRED SUPPLEMENTARY INFORMATION

Exhibit 3.1 - Changes in Net Pension Liability and Related Ratios

Fiscal Year Ended December 31	2024	2023	2022	2021	2020
Total Pension Liability					
Service cost	\$ 15,998,674	\$ 12,945,254	\$ 12,370,415	\$ 10,666,983	\$ 10,232,118
Interest	37,204,397	34,663,778	33,333,430	33,879,521	33,897,815
Changes of benefit terms	-	-	5,210,351	-	-
Differences between expected and actual experience	-	12,144,939	-	(13,283,146)	-
Changes of assumptions	-	7,217,056	-	8,496,574	-
Benefit payments, including refunds of member contributions	(33,729,891)	(32,484,061)	(32,575,251)	(30,468,946)	(28,696,348)
Net change in Total Pension Liability	\$ 19,473,180	\$ 34,486,966	\$ 18,338,945	\$ 9,290,986	\$ 15,433,585
Total Pension Liability--beginning	\$ 549,222,601	\$ 514,735,635	\$ 496,396,690	\$ 487,105,704	\$ 471,672,119
Total Pension Liability--ending (a)	\$ 568,695,781	\$ 549,222,601	\$ 514,735,635	\$ 496,396,690	\$ 487,105,704
Fiduciary Net Position					
Contributions--employer	\$ 25,657,801	\$ 24,823,367	\$ 23,749,608	\$ 22,825,031	\$ 22,075,444
Contributions--member	11,121,201	9,716,694	8,589,628	7,739,593	7,790,258
Net investment income	30,611,357	32,839,008	(38,884,834)	56,218,681	30,834,840
Benefit payments, including refunds of member contributions	(33,729,891)	(32,484,061)	(32,575,251)	(30,468,946)	(28,696,348)
Administrative expenses	(606,287)	(559,831)	(624,209)	(506,754)	(511,249)
Other	-	-	-	-	-
Net change in Fiduciary Net Position	\$ 33,054,181	\$ 34,335,177	\$ (39,745,058)	\$ 55,807,605	\$ 31,492,945
Fiduciary Net Position--beginning	\$ 337,249,374	\$ 302,914,197	\$ 342,659,255	\$ 286,851,650	\$ 255,358,705
Fiduciary Net Position--ending (b)	\$ 370,303,555	\$ 337,249,374	\$ 302,914,197	\$ 342,659,255	\$ 286,851,650
Net Pension Liability and Related Ratios					
Net Pension Liability--ending (a) -- (b)	\$ 198,392,226	\$ 211,973,227	\$ 211,821,438	\$ 153,737,435	\$ 200,254,054
Fiduciary Net Position as a percentage of the Total Pension Liability	65.11%	61.40%	58.85%	69.03%	58.89%
Covered Payroll	\$ 102,988,393	\$ 93,154,471	\$ 79,937,853	\$ 79,526,303	\$ 76,525,906
Net Pension Liability as a percentage of Covered Payroll	192.64%	227.55%	264.98%	193.32%	261.68%
Discount Rate	7.00%	7.00%	7.00%	7.00%	7.25%

SECTION 3 - REQUIRED SUPPLEMENTARY INFORMATION

Exhibit 3.1 - Changes in Net Pension Liability and Related Ratios, continued

Fiscal Year Ended December 31	2019	2018	2017	2016	2015
Total Pension Liability					
Service cost	\$ 9,899,393	\$ 9,495,821	\$ 9,108,701	\$ 8,737,363	\$ 8,829,413
Interest	33,814,517	32,766,857	32,023,014	31,842,170	30,713,326
Changes of benefit terms	-	-	-	-	-
Differences between expected and actual experience	(5,276,741)	-	1,144,843	(11,573,571)	-
Changes of assumptions	6,640,447	-	9,356,284	-	-
Benefit payments, including refunds of member contributions	(28,732,649)	(28,662,273)	(27,995,140)	(26,092,541)	(23,677,370)
Net change in Total Pension Liability	\$ 16,344,967	\$ 13,600,405	\$ 23,637,702	\$ 2,913,421	\$ 15,865,369
Total Pension Liability--beginning	\$ 455,327,152	\$ 441,726,747	\$ 418,089,045	\$ 415,175,624	\$ 399,310,255
Total Pension Liability--ending (a)	<u>\$ 471,672,119</u>	<u>\$ 455,327,152</u>	<u>\$ 441,726,747</u>	<u>\$ 418,089,045</u>	<u>\$ 415,175,624</u>
Fiduciary Net Position					
Contributions--employer	\$ 21,372,968	\$ 20,798,277	\$ 20,605,965	\$ 19,329,195	\$ 18,508,911
Contributions--member	7,245,783	6,843,882	6,781,214	6,851,473	6,706,412
Net investment income	35,297,870	(5,258,480)	33,087,834	13,190,264	1,013,895
Benefit payments, including refunds of member contributions	(28,732,649)	(28,662,273)	(27,995,140)	(26,092,541)	(23,677,370)
Administrative expenses	(486,756)	(502,445)	(503,255)	(472,754)	(470,318)
Other	-	-	-	-	-
Net change in Fiduciary Net Position	\$ 34,697,216	\$ (6,781,039)	\$ 31,976,618	\$ 12,805,637	\$ 2,081,530
Fiduciary Net Position--beginning	\$ 220,661,489	\$ 227,442,528	\$ 195,465,910	\$ 182,660,273	\$ 180,578,743
Fiduciary Net Position--ending (b)	<u>\$ 255,358,705</u>	<u>\$ 220,661,489</u>	<u>\$ 227,442,528</u>	<u>\$ 195,465,910</u>	<u>\$ 182,660,273</u>
Net Pension Liability and Related Ratios					
Net Pension Liability--ending (a) -- (b)	<u>\$ 216,313,414</u>	<u>\$ 234,665,663</u>	<u>\$ 214,284,219</u>	<u>\$ 222,623,135</u>	<u>\$ 232,515,351</u>
Fiduciary Net Position as a percentage of the Total Pension Liability	54.14%	48.46%	51.49%	46.75%	44.00%
Covered Payroll	\$ 75,849,815	\$ 75,251,536	\$ 77,421,566	\$ 73,741,641	\$ 74,624,910
Net Pension Liability as a percentage of Covered Payroll	285.19%	311.84%	276.78%	301.90%	311.58%
Discount Rate	7.25%	7.50%	7.50%	7.75%	7.75%

SECTION 3 - REQUIRED SUPPLEMENTARY INFORMATION

Exhibit 3.2 - Schedule of Employer Contributions

Fiscal Year Ended December 31	2024	2023	2022	2021	2020
Actuarially Determined Contribution	\$ 25,728,538	\$ 24,789,033	\$ 23,639,335	\$ 22,801,808	\$ 21,607,083
Contributions in relation to the Actuarially Determined Contribution	25,657,801	24,823,367	23,749,608	22,825,031	22,075,444
Contribution deficiency (excess)	\$ 70,737	\$ (34,334)	\$ (110,273)	\$ (23,223)	\$ (468,361)
Covered Payroll	\$ 102,988,393	\$ 93,154,471	\$ 79,937,853	\$ 79,526,303	\$ 76,525,906
Contributions as a percentage of Covered Payroll	24.91%	26.65%	29.71%	28.70%	28.85%

The contribution shown above, \$25,657,801, was made by member units of the Lawrence Contributory Retirement System for the 2025 fiscal year, and is comprised of the appropriation due of \$25,728,538 less estimated federal grants of \$869,512 plus actual federal grants reported on the Annual Statement of \$798,775.

SECTION 3 - REQUIRED SUPPLEMENTARY INFORMATION

Exhibit 3.2 - Schedule of Employer Contributions, continued

Fiscal Year Ended December 31	2019	2018	2017	2016	2015
Actuarially Determined Contribution	\$ 21,375,578	\$ 20,756,572	\$ 20,684,393	\$ 19,320,161	\$ 18,515,120
Contributions in relation to the Actuarially Determined Contribution	<u>21,372,968</u>	<u>\$ 20,798,277</u>	<u>\$ 20,605,965</u>	<u>\$ 19,329,195</u>	<u>\$ 18,508,911</u>
Contribution deficiency (excess)	<u>\$ 2,610</u>	<u>\$ (41,705)</u>	<u>\$ 78,428</u>	<u>\$ (9,034)</u>	<u>\$ 6,209</u>
Covered Payroll	\$ 75,849,815	\$ 75,251,536	\$ 77,421,566	\$ 73,741,641	\$ 74,624,910
Contributions as a percentage of Covered Payroll	28.18%	27.64%	26.62%	26.21%	24.80%

SECTION 3 - REQUIRED SUPPLEMENTARY INFORMATION

Exhibit 3.3 - Investment Returns

Fiscal Year Ended December 31	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015
Annual money-weighted rate of return, net of investment expense	8.97%	10.94%	-11.27%	19.69%	12.01%	16.08%	-2.29%	17.06%	7.53%	0.59%

The money-weighted rate of return considers the changing amounts actually invested during a period and weights the amount of pension plan investments by the proportion of time they are available to earn a return during that period. The rate of return is then calculated by solving, through an iterative process, for the rate that equates the sum of the weighted external cash flows into and out of the pension plan investments to the ending fair value of pension plan investments.

Appendix A shows the details of the calculation of the money-weighted rate of return for the current fiscal year.

SECTION 3 - REQUIRED SUPPLEMENTARY INFORMATION

Notes to the Required Supplementary Information

Changes of benefit terms

All benefit provisions remained the same from the prior measurement date. The Plan provisions used in these disclosures are detailed in Section 5, Summary of Plan Provisions, in the most recent funding actuarial report.

Changes of assumptions

All Actuarial Assumptions and Methods used in these disclosures are the same as the last measurement date. The Actuarial Assumptions and Methods used in these disclosures are detailed in Section 6, Actuarial Assumptions and Methods, in the most recent funding valuation report.

Methods and assumptions used in calculations of Actuarially Determined Contributions

The Actuarially Determined Contributions in the schedule of employers' contributions are calculated as of July 1 of the fiscal year in which contributions are reported. The following actuarial methods and assumptions were used to determine contributions reported in that schedule:

Actuarial cost method	Entry Age Normal	
Amortization method	UAAL	The Unfunded Actuarial Accrued Liability is expected to be fully funded on June 30, 2036. The annual increase in appropriation is further limited to 5.26%.
	2002 & 2003 ERI	Increasing dollar amount at 4% to reduce the 2002 and 2003 ERI Actuarial Accrued Liability to zero by June 30, 2028 except for the Lawrence Housing Authority, where an increasing dollar amount at 4.5% to reduce the 2002 ERI Actuarial Accrued Liability to zero by June 30, 2028 applies.
Asset valuation method	The Actuarial Value of Assets is the market value of assets as of the valuation date reduced by the sum of: a) 80% of gains and losses of the prior year, b) 60% of gains and losses of the second prior year, c) 40% of gains and losses of the third prior year, and d) 20% of gains and losses of the fourth prior year. Investment gains and losses are determined by the excess or deficiency of the expected return over the actual return on the market value. The actuarial valuation of assets is further constrained to be not less than 80% or more than 120% of market value. The actuarial value of assets smoothing method described here was implemented beginning with the January 1, 2022 valuation, in which the asset smoothing method was phased-in by only recognizing the 2020 and 2021 gains.	

SECTION 3 - REQUIRED SUPPLEMENTARY INFORMATION

Notes to the Required Supplementary Information

Inflation	2.5% per year
Salary increases	Group 1: 6% - 4.25%, based on service Group 4: 7% - 4.75%, based on service
Payroll growth	3.75% per year
Investment rate of return	7%, net of pension plan investment expense, including inflation.

SECTION 4 - EMPLOYER REPORTING AMOUNTS UNDER GASB 68

Exhibit 4.1 - Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred Outflows of Resources and Deferred Inflows of Resources arising from differences between expected and actual experience are recognized in Pension Expense over the average expected remaining service life of all active and inactive members.

			Balances at December 31, 2024		
	Experience Losses	Experience Gains	Amounts Recognized in Pension Expense through December 31, 2024	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(c)	(a) - (c)	(b) + (c)
2019	\$ -	\$ 5,276,741	\$ (5,276,741)	\$ -	\$ -
2020	-	-	-	-	-
2021	-	13,283,146	(9,875,944)	-	3,407,202
2022	-	-	-	-	-
2023	12,144,939	-	4,159,226	7,985,713	-
2024	-	-	-	-	-
Total				<u>\$ 7,985,713</u>	<u>\$ 3,407,202</u>

Deferred Outflows of Resources and Deferred Inflows of Resources arising from changes of assumptions are recognized in Pension Expense over the average expected remaining service life of all active and inactive members.

			Balances at December 31, 2024		
	Increases in the Total Pension Liability	Decreases in the Total Pension Liability	Amounts Recognized in Pension Expense through December 31, 2024	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(c)	(a) - (c)	(b) + (c)
2019	\$ 6,640,447	\$ -	\$ 6,640,447	\$ -	\$ -
2020	-	-	-	-	-
2021	8,496,574	-	6,317,156	2,179,418	-
2022	-	-	-	-	-
2023	7,217,056	-	2,471,594	4,745,462	-
2024	-	-	-	-	-
Total				<u>\$ 6,924,880</u>	<u>\$ -</u>

SECTION 4 - EMPLOYER REPORTING AMOUNTS UNDER GASB 68

Exhibit 4.1 - Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred Outflows of Resources and Deferred Inflows of Resources arising from differences between projected and actual earnings on Pension Plan investments are recognized in Pension Expense over five years.

			Balances at December 31, 2024		
	Investment Earnings Less Than Projected	Investment Earnings Greater Than Projected	Amounts Recognized in Pension Expense through December 31, 2024	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(c)	(a) - (c)	(b) + (c)
2019	\$ -	\$ 18,770,783	\$ (18,770,783)	\$ -	\$ -
2020	-	12,389,477	(12,389,477)	-	-
2021	-	35,533,202	(28,426,561)	-	7,106,641
2022	62,741,107	-	37,644,663	25,096,444	-
2023	-	11,676,613	(4,670,646)	-	7,005,967
2024	-	6,996,884	(1,399,377)	-	5,597,507
Subtotal				\$ 25,096,444	\$ 19,710,115
Net				\$ 5,386,329	\$ -

SECTION 4 - EMPLOYER REPORTING AMOUNTS UNDER GASB 68

Exhibit 4.1 - Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred Outflows of Resources and Deferred Inflows of Resources arising from changes in proportion and differences between employer contributions and proportionate share of contributions are recognized in Pension Expense over the average expected remaining service life of all active and inactive members.

				Balances at December 31, 2024	
	Proportionate Share* Outflows	Proportionate Share* Inflows	Amounts Recognized in Pension Expense through December 31, 2024	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(c)	(a) - (c)	(b) + (c)
2019	\$ 2,133,523	\$ 2,133,523	\$ 2,133,523	\$ -	\$ -
2020	1,486,262	1,486,262	1,238,552	247,710	247,710
2021	274,757	274,757	204,280	70,477	70,477
2022	1,323,661	1,323,661	738,101	585,560	585,560
2023	833,911	833,911	285,586	548,325	548,325
2024	1,442,980	1,442,980	247,086	1,195,894	1,195,894
Total				<u>\$ 2,647,966</u>	<u>\$ 2,647,966</u>

* Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources will be recognized in Pension Expense as follows:

Year ended December 31

2025	\$	4,132,594
2026	\$	11,790,846
2027	\$	(419,289)
2028	\$	1,385,569
2029	\$	-
Thereafter	\$	-
Total Deferred Outflows	\$	22,944,888
Total Deferred Inflows	\$	6,055,168

SECTION 4 - EMPLOYER REPORTING AMOUNTS UNDER GASB 68

Exhibit 4.2 - Pension Expense

The Pension Expense and deferred outflows and inflows of resources primarily result from changes in the components of the net pension liability (NPL). Most changes in the NPL are included in the Pension Expense in the period of the change, including service cost, interest on total pension liability, changes in benefit terms and projected earnings on the pension plan's investments. Other changes in the net pension liability are included in Pension Expense over the current and future periods. These include the effects on the total pension liability of changes of economic and demographic assumptions and differences between expected and actual experience. In addition, the effect on the net pension liability of differences between the projected earnings on pension plan investments and actual experience with regard to those earnings are included in Pension Expense over the current and future periods. The Pension Expense for the reporting period ending December 31, 2024 is presented below:

1. Service cost	\$ 15,998,674
2. Interest on the total pension liability	
a. Total Pension Liability, beginning of year	549,222,601
b. Service cost, beginning of year	15,998,674
c. Benefit payments, including refunds of employee contributions	(33,729,891)
d. Interest on Total Pension Liability	37,204,397
3. Differences between expected and actual experience	(1,268,829)
4. Changes of benefit terms	-
5. Changes of assumptions	3,921,828
6. Employee contributions	(11,121,201)
7. Projected earnings on pension plan investments	
a. Fiduciary Net Position, beginning of year	337,249,374
b. Employer contributions	25,657,801
c. Employee contributions	11,121,201
d. Benefit payments, including refunds of employee contributions	(33,729,891)
e. Administrative expenses and other	(606,287)
f. Total projected earnings	(23,614,473)
8. Differences between projected and actual earnings on plan investments	(771,016)
9. Pension plan administrative expenses	606,287
10. Other changes in Fiduciary Net Position	-
11. Total Pension Expense	<u>\$ 20,955,667</u>

SECTION 4 - EMPLOYER REPORTING AMOUNTS UNDER GASB 68

Exhibit 4.3 - Proportionate Share of Contributions

The basis of an employer's allocation of the collective pension amount is consistent with the manner in which contributions to the plan are made. The schedule of employer allocations for 2024 and 2023, based on employer contributions made for the 2025 fiscal year and 2024 fiscal year, respectively, shows the proportionate relationship of each employer's contribution to all employers.

Entity	2024		2023	
	Employer Contribution	Proportionate Share of Total Employer Contribution	Employer Contribution	Proportionate Share of Total Employer Contribution
City of Lawrence	23,027,248	89.747554%	22,326,498	89.941457%
Greater Lawrence Regional Vocational Tech	1,524,801	5.942836%	1,282,845	5.167893%
Lawrence Housing Authority	978,475	3.813558%	1,065,439	4.292081%
MVRTA	127,276	0.496052%	148,585	0.598569%
Total	25,657,800	100.000000%	24,823,367	100.000000%

SECTION 4 - EMPLOYER REPORTING AMOUNTS UNDER GASB 68

Exhibit 4.4 - Pension Amounts by Employer

The Schedule of Pension Amounts by Employer is provided in Appendix C. The schedule shows the Net Pension Liability, the various categories of Deferred Outflows of Resources and Deferred Inflows of Resources and Pension Expense for each employer. The schedule includes the differences between expected and actual experience, differences between projected and actual investment earnings and changes of assumptions. Further, each employer is required to recognize Deferred Outflows of Resources and Deferred Inflows of Resources related to (1) the net impact from changes in proportion between periods and (2) differences between actual contributions made by an employer and their proportionate share of contributions.

Each employer's allocation of Pension Expense and Net Pension Liability can be based on the proportion of its contributions to the aggregate amount of employer contributions.

Under GASB 68, gains and losses (investment, experience or assumption changes) and changes in employer's proportionate shares related to pensions are recognized in Pension Expense systematically over time.

The first amortized amounts are recognized in Pension Expense for the year the gain or loss occurs. The remaining amounts are categorized as Deferred Inflows and Deferred Outflows to be recognized in future Pension Expense.

The amortization period differs depending on the source of the gain or loss:

Difference between projected and actual earnings

5 year straight-line amortization

All other amounts

Straight-line amortization over the average expected remaining service lives of all members that are provided with benefits (actives, inactives and retirees) as of the beginning of the measurement period

For 2024:

- ◆ Net Pension Liability, Deferred Outflows of Resources, Deferred Inflows of Resources and Pension Expense are allocated to each employer based on its proportionate share of Total Employer Contributions shown in Exhibit 4.3.
- ◆ The difference between expected and actual experience is amortized over the average of the expected future service lives of all participants, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in Pension Expense in 2016.
- ◆ Net difference between projected and actual investment earnings (gain on pension plan investments for 2024) is amortized over 5 years, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in Pension Expense in 2014.
- ◆ The change in Total Pension Liability as a result of changes in assumptions is amortized over the average of the expected future service lives of all participants, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in Pension Expense in 2017.

SECTION 4 - EMPLOYER REPORTING AMOUNTS UNDER GASB 68

Exhibit 4.4 - Pension Amounts by Employer

For 2024 (continued):

- ◆ The net effect of the difference in the employer's proportionate shares of the collective employer contribution and the actual employer contribution is amortized over the average expected remaining service lives of all members, with the first amortized amount recognized in pension expense in 2015.
- ◆ The net effect of the change in the employer's proportionate shares of the collective Net Pension Liability, collective Deferred Outflows and Deferred Inflows is amortized over the average expected remaining service lives of all members, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in 2015.
- ◆ No adjustments have been made for employer contributions made subsequent to the measurement date as defined in paragraph 57 of GASB 68.

SECTION 5 - GLOSSARY OF TERMS

Actuarial Assumptions – Assumptions, based upon past experience or standard tables, used to predict the occurrence of future events affecting the commencement, amount and duration of pension benefits, such as: changes in compensation, mortality, withdrawal, disablement and retirement; rates of investment earnings and asset appreciation or depreciation; and any other relevant items.

Actuarial Cost Method (or Funding Method) – A procedure for allocating the Actuarial Present Value of projected benefit payments to the current year (Service Cost) and the past (Total Pension Liability).

Actuarial (Experience) Gain or Loss – A measure of the difference between actual experience and that expected based upon the set of Actuarial Assumptions during the period between the valuation date and the most recent immediately preceding valuation date.

Actuarial Present Value of Projected Benefit Payments – The dollar value on the valuation date of all benefits expected to be paid to current members based upon the Actuarial Assumptions and the terms of the Plan.

Actuarially Determined Contribution – A target or recommended contribution to a defined benefit pension plan for the reporting period, determined in conformity with Actuarial Standards of Practice based on the most recent measurement available when the contribution for the reporting period was adopted.

Actuarial Valuation Date – The date as of which an actuarial valuation is performed. This date may be up to 24 months prior to the measurement date and up to 30 months prior to the employer's reporting date.

Covered Payroll – The payroll on which contributions to a pension plan are based.

Deferred Inflow of Resources – Acquisition of resources by a government that is applicable to future reporting periods. Under GASB 68, deferred inflows of resources are made up of experience gains, assumption changes reducing the Total Pension Liability and investment gains that are recognized in future reporting periods.

Deferred Outflow of Resources – Consumption of resources by a government that is applicable to future reporting periods. Under GASB 68, deferred outflows of resources are made up of experience losses, assumption changes increasing the Total Pension Liability and investment losses that are recognized in future reporting periods.

Discount Rate – Single rate of return that, when applied to all projected benefit payments, results in an actuarial present value of projected benefit payments equal to the sum of:

- (1) a long-term expected rate of return on pension plan investments *to the extent that the pension plan's assets are sufficient to pay benefits and pension plan assets are expected to be invested using a strategy to achieve that return* and
- (2) a tax-exempt, high-quality municipal bond rate *to the extent that the conditions for use of the long-term expected rate of return are not met.*

Entry Age Normal Actuarial Cost Method – A method under which the actuarial present value of the projected benefits of each individual in an actuarial valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age.

SECTION 5 - GLOSSARY OF TERMS

Fiduciary Net Position – The fair market value of assets as of the measurement date.

Funded Ratio – The Actuarial Value of Assets expressed as a percentage of the Actuarial Accrued Liability.

GASB – Governmental Accounting Standards Board.

Long-Term Expected Rate of Return – Long-term expected rate of return on pension plan investments expected to be used to finance the payment of benefits, net of investment expenses.

Measurement Date – The date as of which the Total Pension Liability and Fiduciary Net Position are measured.

Municipal Bond Rate – Yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher.

Net Pension Liability – The liability of the employer for benefits provided through a defined benefit pension plan. It is calculated as the Total Pension Liability less the Fiduciary Net Position.

Present Value of Future Benefits – The actuarial present value of the cost to finance benefits payable in the future, discounted to reflect the expected effects of the time value of money and the probabilities of payment.

Reporting Date – The last day of the Plan or employer's fiscal year.

Service Cost – The portion of the actuarial present value of projected benefit amounts that is attributed to a valuation year.

Total Pension Liability – The portion of the actuarial present value of projected benefit amounts that is attributed to past periods of employee service using the Entry Age Normal cost method based on the requirements of GASB 67 and GASB 68.

Unfunded Actuarial Accrued Liability – The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets.

APPENDIX A - CALCULATION OF MONEY-WEIGHTED RATE OF RETURN

	Plan Investments/ Net External Cash Flows (a)	Periods Invested (b)	Period Weight (c)=(b)÷12	(d)=(a) x (1+r _{mw}) ^(c)
Beginning value - January 1, 2024	\$ 337,249,374	12	1.00	\$ 367,485,721
Monthly net external cash flows:				
January	(1,839,637)	11	0.92	(1,990,279)
February	(1,795,180)	10	0.83	(1,928,335)
March	(1,912,103)	9	0.75	(2,039,287)
April	(1,750,267)	8	0.67	(1,853,377)
May	(1,938,135)	7	0.58	(2,037,681)
June	(411,550)	6	0.50	(429,603)
July	21,501,803	5	0.42	22,284,972
August	(2,271,437)	4	0.33	(2,337,386)
September	(1,821,247)	3	0.25	(1,860,764)
October	(1,901,669)	2	0.17	(1,929,079)
November	(1,596,054)	1	0.08	(1,607,515)
December	(1,453,832)	0	0.00	(1,453,832)
Ending value - December 31, 2024				\$ 370,303,555
Money-weighted rate of return				8.97%

Note: Beginning and ending values are based on amounts reported in the System's 2024 Annual Statement, and monthly cash flows are based on amounts provided by the Retirement Board.

APPENDIX B - SCHEDULE OF DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES

Year	Differences between Expected and Actual Experience	Recognition Period (Years)	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
2019	(5,276,741)	6.00	(879,456)	-	-	-	-	-	-	-	-	-
2020	-	6.00	-	-	-	-	-	-	-	-	-	-
2021	(13,283,146)	5.38	(2,468,986)	(2,468,986)	(938,216)	-	-	-	-	-	-	-
2022	-	5.38	-	-	-	-	-	-	-	-	-	-
2023	12,144,939	5.84	2,079,613	2,079,613	2,079,613	2,079,613	1,746,874	-	-	-	-	-
2024	-	5.84	-	-	-	-	-	-	-	-	-	-
Net Increase (Decrease) in Pension Expense			(1,268,829)	(389,373)	1,141,397	2,079,613	1,746,874	-	-	-	-	-

Year	Changes of Assumptions	Recognition Period (Years)	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
2019	6,640,447	6.00	1,106,742	-	-	-	-	-	-	-	-	-
2020	-	6.00	-	-	-	-	-	-	-	-	-	-
2021	8,496,574	5.38	1,579,289	1,579,289	600,129	-	-	-	-	-	-	-
2022	-	5.38	-	-	-	-	-	-	-	-	-	-
2023	7,217,056	5.84	1,235,797	1,235,797	1,235,797	1,235,797	1,038,071	-	-	-	-	-
2024	-	5.84	-	-	-	-	-	-	-	-	-	-
Net Increase (Decrease) in Pension Expense			3,921,828	2,815,086	1,835,926	1,235,797	1,038,071	-	-	-	-	-

APPENDIX B - SCHEDULE OF DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES

Year	Differences between Projected and Actual Earnings on Pension Plan Investments	Recognition Period (Years)	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
2019	(18,770,783)	5	-	-	-	-	-	-	-	-	-	-
2020	(12,389,477)	5	(2,477,896)	-	-	-	-	-	-	-	-	-
2021	(35,533,202)	5	(7,106,641)	(7,106,641)	-	-	-	-	-	-	-	-
2022	62,741,107	5	12,548,221	12,548,222	12,548,222	-	-	-	-	-	-	-
2023	(11,676,613)	5	(2,335,323)	(2,335,323)	(2,335,322)	(2,335,322)	-	-	-	-	-	-
2024	(6,996,884)	5	(1,399,377)	(1,399,377)	(1,399,377)	(1,399,377)	(1,399,376)	-	-	-	-	-
Net Increase (Decrease) in Pension Expense			(771,016)	1,706,881	8,813,523	(3,734,699)	(1,399,376)	-	-	-	-	-

APPENDIX C - SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

Pension Amounts as of December 31, 2024	Lawrence Contributory Retirement System	City of Lawrence
◆ Current Proportionate Share		89.747554%
◆ Prior Proportionate Share		89.941457%
Beginning Net Pension Liability	\$ 211,973,227	\$ 190,651,810
Ending Net Pension Liability	\$ 198,392,226	\$ 178,052,170
Total Deferred Outflows of Resources:		
◆ Differences Between Expected and Actual Experience	\$ 7,985,713	\$ 7,166,982
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	5,386,329	4,834,098
◆ Changes of Assumptions	6,924,880	6,214,911
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	2,647,966	659,408
Total Deferred Outflows of Resources	\$ 22,944,888	\$ 18,875,399
Total Deferred Inflows of Resources:		
◆ Differences Between Expected and Actual Experience	\$ 3,407,202	\$ 3,057,881
◆ Changes of Assumptions	-	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	2,647,966	883,166
Total Deferred Inflows of Resources	\$ 6,055,168	\$ 3,941,047
Employer Pension Expense:		
◆ Proportionate Share of Plan Pension Expense	\$ 20,955,667	\$ 18,807,199
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	-	(314,282)
Total Employer Pension Expense	\$ 20,955,667	\$ 18,492,917
Covered Payroll:	\$ 102,988,393	\$ 91,486,538
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:		
◆ Current discount rate: 7%	\$ 198,392,226	\$ 178,052,170
◆ 1% decrease in the discount rate: 6%	\$ 263,238,829	\$ 236,250,411
◆ 1% increase in the discount rate: 8%	\$ 143,686,176	\$ 128,954,829
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:		
◆ 2025	\$ 4,132,594	\$ 3,746,543
◆ 2026	\$ 11,790,846	\$ 10,391,185
◆ 2027	\$ (419,289)	\$ (423,628)
◆ 2028	\$ 1,385,569	\$ 1,272,185
◆ 2029	\$ -	\$ (51,933)
◆ Thereafter	\$ -	\$ -

APPENDIX C - SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

Pension Amounts as of December 31, 2024	Lawrence Contributory Retirement System	Greater Lawrence Regional Vocational Tech
◆ Current Proportionate Share		5.942836%
◆ Prior Proportionate Share		5.167893%
Beginning Net Pension Liability	\$ 211,973,227	\$ 10,954,549
Ending Net Pension Liability	\$ 198,392,226	\$ 11,790,125
Total Deferred Outflows of Resources:		
◆ Differences Between Expected and Actual Experience	\$ 7,985,713	\$ 474,578
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	5,386,329	320,101
◆ Changes of Assumptions	6,924,880	411,534
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	2,647,966	1,575,331
Total Deferred Outflows of Resources	\$ 22,944,888	\$ 2,781,544
Total Deferred Inflows of Resources:		
◆ Differences Between Expected and Actual Experience	\$ 3,407,202	\$ 202,484
◆ Changes of Assumptions	-	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	2,647,966	216,218
Total Deferred Inflows of Resources	\$ 6,055,168	\$ 418,702
Employer Pension Expense:		
◆ Proportionate Share of Plan Pension Expense	\$ 20,955,667	\$ 1,245,361
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	-	442,750
Total Employer Pension Expense	\$ 20,955,667	\$ 1,688,111
Covered Payroll:	\$ 102,988,393	\$ 6,177,248
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:		
◆ Current discount rate: 7%	\$ 198,392,226	\$ 11,790,125
◆ 1% decrease in the discount rate: 6%	\$ 263,238,829	\$ 15,643,852
◆ 1% increase in the discount rate: 8%	\$ 143,686,176	\$ 8,539,034
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:		
◆ 2025	\$ 4,132,594	\$ 574,642
◆ 2026	\$ 11,790,846	\$ 1,057,084
◆ 2027	\$ (419,289)	\$ 232,103
◆ 2028	\$ 1,385,569	\$ 291,461
◆ 2029	\$ -	\$ 207,552
◆ Thereafter	\$ -	\$ -

APPENDIX C - SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

Pension Amounts as of December 31, 2024	Lawrence Contributory Retirement System	Lawrence Housing Authority
◆ Current Proportionate Share		3.813558%
◆ Prior Proportionate Share		4.292081%
Beginning Net Pension Liability	\$ 211,973,227	\$ 9,098,062
Ending Net Pension Liability	\$ 198,392,226	\$ 7,565,802
Total Deferred Outflows of Resources:		
◆ Differences Between Expected and Actual Experience	\$ 7,985,713	\$ 304,540
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	5,386,329	205,411
◆ Changes of Assumptions	6,924,880	264,084
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	2,647,966	240,259
Total Deferred Outflows of Resources	\$ 22,944,888	\$ 1,014,294
Total Deferred Inflows of Resources:		
◆ Differences Between Expected and Actual Experience	\$ 3,407,202	\$ 129,936
◆ Changes of Assumptions	-	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	2,647,966	1,388,753
Total Deferred Inflows of Resources	\$ 6,055,168	\$ 1,518,689
Employer Pension Expense:		
◆ Proportionate Share of Plan Pension Expense	\$ 20,955,667	\$ 799,156
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	-	(178,618)
Total Employer Pension Expense	\$ 20,955,667	\$ 620,538
Covered Payroll:	\$ 102,988,393	\$ 4,637,055
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:		
◆ Current discount rate: 7%	\$ 198,392,226	\$ 7,565,802
◆ 1% decrease in the discount rate: 6%	\$ 263,238,829	\$ 10,038,765
◆ 1% increase in the discount rate: 8%	\$ 143,686,176	\$ 5,479,555
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:		
◆ 2025	\$ 4,132,594	\$ (247,742)
◆ 2026	\$ 11,790,846	\$ 281,023
◆ 2027	\$ (419,289)	\$ (227,799)
◆ 2028	\$ 1,385,569	\$ (181,715)
◆ 2029	\$ -	\$ (128,162)
◆ Thereafter	\$ -	\$ -

APPENDIX C - SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

Pension Amounts as of December 31, 2024	Lawrence Contributory Retirement System	MVRTA
◆ Current Proportionate Share		0.496052%
◆ Prior Proportionate Share		0.598569%
Beginning Net Pension Liability	\$ 211,973,227	\$ 1,268,806
Ending Net Pension Liability	\$ 198,392,226	\$ 984,128
Total Deferred Outflows of Resources:		
◆ Differences Between Expected and Actual Experience	\$ 7,985,713	\$ 39,613
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	5,386,329	26,719
◆ Changes of Assumptions	6,924,880	34,351
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	2,647,966	172,968
Total Deferred Outflows of Resources	\$ 22,944,888	\$ 273,651
Total Deferred Inflows of Resources:		
◆ Differences Between Expected and Actual Experience	\$ 3,407,202	\$ 16,901
◆ Changes of Assumptions	-	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	2,647,966	159,829
Total Deferred Inflows of Resources	\$ 6,055,168	\$ 176,730
Employer Pension Expense:		
◆ Proportionate Share of Plan Pension Expense	\$ 20,955,667	\$ 103,951
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	-	50,150
Total Employer Pension Expense	\$ 20,955,667	\$ 154,101
Covered Payroll:	\$ 102,988,393	\$ 687,552
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:		
◆ Current discount rate: 7%	\$ 198,392,226	\$ 984,128
◆ 1% decrease in the discount rate: 6%	\$ 263,238,829	\$ 1,305,801
◆ 1% increase in the discount rate: 8%	\$ 143,686,176	\$ 712,758
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:		
◆ 2025	\$ 4,132,594	\$ 59,151
◆ 2026	\$ 11,790,846	\$ 61,554
◆ 2027	\$ (419,289)	\$ 35
◆ 2028	\$ 1,385,569	\$ 3,638
◆ 2029	\$ -	\$ (27,457)
◆ Thereafter	\$ -	\$ -

APPENDIX D - CALCULATION OF SINGLE DISCOUNT RATE

Under GASB 67, a series of projections and calculations are used to determine the discount rate for the purpose of the measurement of the Total Pension Liability. The discount rate is the single rate that reflects (1) the long-term expected rate of return on pension plan investments that are expected to be used to finance the payment of benefits, to the extent that the pension plan's Fiduciary Net Position is projected to be sufficient to make projected benefit payments and pension plan assets are expected to be invested using a strategy to achieve that return, and (2) a yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher, to the extent that the conditions for use of the long-term expected rate of return are not met.

Projected cash flows into and out of the pension plan are assumed to be contributions to the pension plan, benefit payments, pension plan administrative expenses and pension plan investment earnings. These projected cash flows are used to project the pension plan's Fiduciary Net Position at the beginning of each period. The pension plan's projected Fiduciary Net Position at the beginning of each period is compared to the amount of benefit payments projected to occur in that period.

It is assumed that the pension plan's Fiduciary Net Position is expected to always be invested using a strategy to achieve the long-term expected rate of return on pension plan investments.

The benefit payments that are projected to occur in a period are discounted using the long-term expected rate of return on pension plan investments if the amount of the pension plan's beginning Fiduciary Net Position is projected to be sufficient to make the benefit payments in that period. In periods in which benefit payments are projected to be greater than the amount of the pension plan's Fiduciary Net Position, they are discounted using a municipal bond rate as required by GASB 67.

For purposes of this valuation, the long-term expected rate of return on pension plan investments is 7%; the municipal bond rate is 4.08%, based on the December 2024 Bond Buyer Index as published by the Federal Reserve. For each period, the pension plan's Fiduciary Net Position is projected to be sufficient to make the benefit payments in that period, therefore, the resulting single discount rate is based solely on the long-term expected rate of return of 7%.