

# WORCESTER REGIONAL RETIREMENT SYSTEM

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

Disclosures as of December 31, 2022

> KMS Actuaries, LLC 52 Hunt Road Kingston, NH 03848

> > October, 2023



A C T U A R I E S



October 26, 2023

Mr. Kevin Blanchette Chairman Worcester Regional Retirement System 23 Midstate Drive, Suite 106 Auburn, MA 01501

#### Dear Kevin:

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 Worcester Regional Retirement System and participating employers as of December 31, 2022. Results are based on liabilities developed in an actuarial valuation performed as of January 1, 2022 and rolled forward to the plan's measurement date of December 31, 2022.

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 Worcester Regional 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 assumption of 7.25%, 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 Plan and to reasonable expectations, and represent our best estimate of anticipated long-term experience under the Plan.

Mr. Kevin Blanchette October 26, 2023 Page 2

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.

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 Worcester Regional Retirement System and participating employers and 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 Worcester Regional 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 Worcester Regional Retirement System, other than as consulting actuary for this assignment, that would impair our independence.

The undersigned credentialed actuaries 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 Accounting Standards**

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 Worcester Regional 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 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 Worcester Regional 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, 2022 (the measurement date) presents information to assist the Worcester Regional 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**

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

Disclosure Date De	ecember 31, 2022	December 31, 2021	% Change
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Valuation Date	January 1, 2022	January 1, 2020	
Membership Data			
Active Plan Members	7,561	7,121	6.2%
Inactive Members Currently in Receipt	4,270	4,112	3.8%
Inactive Members Deferred	2,197	2,714	(19.0%)
Total Plan Members	14,028	13,947	0.6%
Covered Payroll	\$341,237,099	\$316,455,433	7.8%
Net Pension Liability			
Discount Rate	7.25%	7.25%	
Total Pension Liability (TPL)	\$1,984,777,803	\$1,921,828,296	3.3%
Fiduciary Net Position (FNP)	956,499,867	1,079,814,993	(11.4%)
Net Pension Liability (NPL)	\$1,028,277,936	\$842,013,303	22.1%
FNP as % of TPL	48.2%	56.2%	(14.2%)
Pension Expense			
Pension Expense	\$111,155,119	\$78,810,662	41.0%
Deferred Outflows	\$123,884,731	\$72,402,779	
Deferred Inflows	\$31,467,935	\$136,404,861	
Recognition Period	5.53	5.71	

#### **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, 2022 and rolled forward to the plan's measurement date of December 31, 2022 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 of the 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, 2022 is \$111,155,119 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.

#### **COVID-19 Pandemic**

The assumptions in this report do not reflect the potential impacts of the COVID-19 pandemic on the System. Especially in the short range, it is very likely that the pandemic materially affected the economic and demographic experience in a way not anticipated by the assumptions on which the projections are based.

#### 5% Local COLA Option

On November 16, 2022, Governor Baker signed Chapter 269 of the Acts of 2022 into law. This act provides the local retirement systems with the option to increase the Cost of Living Adjustment ("COLA") for Fiscal Year 2023 to up to 5 percent on the base amount specified pursuant to G.L. c. 32, § 103. The approval of the increase must occur prior to July 1, 2023 and will take effect as of July 1, 2022.

The required approval of two-thirds of the municipal member units (cities and towns) was not adopted as of the Plan's 2022 fiscal year-end, therefore the increased benefits are not included in the measurement of the total pension liability reported by the Plan at December 31, 2022. The impact of the additional COLA will be recognized in the next measurement as of December 31, 2023.

## **SECTION 1 - PRINCIPAL VALUATION RESULTS**

## **Fiduciary Net Position**

Asset information was provided by the Worcester Regional 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

2022 2021

Trust Fund Composition	n at Fi	scal Year-End	
Cash	\$	3,508,459	\$ 3,913,792
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		22,545	47,220
Pooled Real Estate Funds		0	0
Pooled Domestic Balanced Funds		0	0
Pooled International Balanced Funds		0	0
Hedge Funds		0	0
PRIT Cash		0	0
PRIT Fund		962,232,324	1,082,662,154
Interest Due and Accrued		0	0
Prepaid Expenses		0	0
Accounts Receivable (A)		7,108,318	6,944,235
Land		0	0
Buildings		0	0
Accumulated Depreciation - Buildings		0	0
Accounts Payable (A)		(9,776,571)	(9,968,569)
Auditor or Other Adjustments		(6,595,208)	(3,783,839)
Total Market Value of Assets	\$	956,499,867	\$1,079,814,993

# **SECTION 1 - PRINCIPAL VALUATION RESULTS**

## **Fiduciary Net Position**

Fiscal Year Ended December 31 2022
------------------------------------

Asset Activity				
Market value as of beginning of year	\$	1,079,814,993	\$	898,658,766
Contributions - employer		81,309,364		73,946,616
Contributions - member		41,198,378		38,567,322
Net investment income		(123,862,286)		177,961,091
Benefit payments, including refunds of member				
contributions		(108,492,192)		(99,647,598)
Administrative expenses		(1,174,806)		(1,125,229)
Other		(12,293,584)		(8,545,975)
Market Value as of end of year	\$	956,499,867	\$:	1,079,814,993
Money-Weighted Rate of Return		-11.68%		19.74%

(Gain) / Loss on Pension Plan Investments				
Projected earnings	\$	78,336,534	\$	67,386,787
Actual earnings		(123,862,286)		177,961,091
(Gain) / Loss on pension plan investments	\$	202,198,820	\$	(110,574,304)

#### **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, 2022 measurement date was developed from an actuarial valuation as of January 1, 2022 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, 2021 to the end of the measurement period, December 31, 2022 is shown below:

Measurement Date December 31, 2022

1. Total Pension Liability, beginning of year:			
a. Actives	\$	1,051,769,797	
b. Retired and Disabled Members and Beneficiaries		839,575,595	
c. Inactive Members		30,482,904	
d. Total Pension Liability at 7.25% (a. + b. + c.)			\$ 1,921,828,296
2. Service Cost			\$ 55,578,145
3. Benefit Payments			(108,492,192)
,			, , , ,
4. Interest [7.25% x (1.d. + 2. + .5 x 3)]			\$ 139,429,125
5. Changes of benefit terms			-
er enamese er senent terme			
6. Differences between expected and actual experience			(23,565,571)
7. Changes of assumptions or other inputs			
7. Changes of assumptions of other inputs			-
8. Total Pension Liability, end of year (1.d. + 2. + 3. + 4. + 5	5. + 6.	+ 7.)	
a. Actives	\$	953,010,994	
b. Retired and Disabled Members and Beneficiaries		1,003,598,018	
c. Inactive Members		28,168,791	
d. Total Pension Liability at 7.25% (a. + b. + c.)			\$ 1,984,777,803

## **Plan Description**

#### Plan administration

The Worcester Regional Retirement System (the "System") is a cost-sharing, multiple-employer defined benefit pension plan that provides pensions for eligible employees of 99 participating employers. 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, 2022, pension plan membership consisted of the following:

Inactive plan members or beneficiaries currently receiving benefits	4,270
Inactive plan members entitled to but not yet receiving benefits	2,197
Active plan members	7,561
	14 028

#### 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 \$16,000 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, 2022 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	6% of Salary with 30 or more years of creditable service.
or after April 2, 2012	

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.

## **Net Pension Liability**

The components of the Net Pension Liability at December 31, 2022, were as follows:

Total Pension Liability	\$ 1,984,777,803
Fiduciary Net Position	(956,499,867)
Net Pension Liability	\$ 1,028,277,936

Fiduciary Net Position as a percentage of the Total Pension Liability

48.2%

#### **Actuarial assumptions**

The Total Pension Liability was determined by an actuarial valuation as of January 1, 2022, rolled forward to the measurement date of December 31, 2022 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation 2.4% per year

Salary increases Group 1: 6% - 4.25%, based on service

Group 4: 7% - 4.75%, based on service

Investment rate of return 7.25%, 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.

## **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 arithmetic real rates of return for each major asset class included in the pension plan's target asset allocation as of December 31, 2022 (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 <sup>1</sup>
Global Equity	37%	4.74%
Core Fixed Income	15%	2.10%
Value-Added Fixed Income	8%	5.20%
Private Equity	16%	7.60%
Real Estate	10%	3.10%
Timberland	4%	4.40%
Portfolio Completion (PCS)	10%	3.90%
Total	100%	

<sup>&</sup>lt;sup>1</sup> Provided by Pension Reserves Investment Board. Inflation of 2.4% is added to the long-term expected real rates of return to approximate the long-term expected rate of return.

#### **Discount Rate**

The discount rate used to measure the Total Pension Liability is 7.25%. 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 7.25%, as well as what the Net Pension Liability would be if it were calculated using a discount rate 1-percentage point lower (6.25%) or 1-percentage point higher (8.25%) than the current rate:

		Current	
	1% Decrease (6.25%)	Discount Rate (7.25%)	1% Increase (8.25%)
Total Pension Liability	\$ 2,211,275,992	\$ 1,984,777,803	\$ 1,793,288,016
Fiduciary Net Position	956,499,867	956,499,867	956,499,867
Net Pension Liability	\$ 1,254,776,125	\$ 1,028,277,936	\$ 836,788,149

Exhibit 3.1 - Changes in Net Pension Liability and Related Ratios

Fiscal Year Ended December 31	2022	2021	2020	2019	2018
		Total Pension Liab	oility		
Service cost	\$ 55,578,145	\$ 51,147,819	\$ 47,971,080	\$ 45,464,593	\$ 44,445,482
Interest	139,429,125	134,128,720	129,435,294	123,507,870	118,116,251
Changes of benefit terms	-	-	-	-	-
Differences between expected and					
actual experience	(23,565,571)	-	(23,171,133)	-	(8,110,737)
Changes of assumptions	-	49,140,442	35,705,832	17,826,312	-
Benefit payments, including refunds					
of member contributions	(108,492,192)	(99,647,598)	(93,751,426)	(88,229,714)	(83,571,930)
Net change in Total Pension Liability	\$ 62,949,507	\$ 134,769,383	\$ 96,189,647	\$ 98,569,061	\$ 70,879,066
Total Pension Liabilitybeginning	\$1,921,828,296	\$1,787,058,913	\$1,690,869,266	\$1,592,300,205	\$1,521,421,139
Total Pension Liability-ending (a)	\$1,984,777,803	\$1,921,828,296	\$1,787,058,913	\$1,690,869,266	\$1,592,300,205
		Fiduciary Net Posit	ion		
Contributionsemployer	\$ 81,309,364	\$ 73,946,616	\$ 67,269,029	\$ 60,887,972	\$ 55,674,504
Contributionsmember	41,198,378	38,567,322	35,391,500	35,087,583	33,362,836
Net investment income	(123,862,286)	177,961,091	97,497,004	110,458,217	(17,770,572)
	(120,002,200)	111,001,001	01,401,004	110,400,211	(11,110,012)
Benefit payments, including refunds					
of member contributions	(108,492,192)	(99,647,598)	(93,751,426)	(88,229,714)	(83,571,930)
Administrative expenses	(1,174,806)	(1,125,229)	(1,045,530)	(1,112,640)	(1,178,272)
Other	(12,293,584)	(8,545,975)	(7,441,086)	(1,890,156)	(6,971,840)
Net change in Fiduciary Net Position	\$ (123,315,126)	\$ 181,156,227	\$ 97,919,491	\$ 115,201,262	\$ (20,455,274)
Fiduciary Net Position-beginning	\$1,079,814,993	\$ 898,658,766	\$ 800,739,275	\$ 685,538,013	\$ 705,993,287
Fiduciary Net Positionending (b)	\$ 956,499,867	\$1,079,814,993	\$ 898,658,766	\$ 800,739,275	\$ 685,538,013
	Not D	anaian Liability and Da	John d Dation		
	Net Pe	ension Liability and Re	elated Ratios		
Net Pension Liabilityending (a) (b)	\$1,028,277,936	\$ 842,013,303	\$ 888,400,147	\$ 890,129,991	\$ 906,762,192
Fiduciary Net Position as a					
percentage of the Total Pension					
Liability	48.19%	56.19%	50.29%	47.36%	43.05%
Covered Payroll	\$ 341,237,099	\$ 316,455,433	\$ 321,050,145	\$ 301,686,927	\$ 273,888,022
Net Pension Liability as a					
percentage of Covered Payroll	301.34%	266.08%	276.72%	295.05%	331.07%

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

Fiscal Year Ended December 31	2017	2016	2015	2014	2013
		Total Pension Liab	pility		
			-		
Service cost	\$ 42,736,040	\$ 35,984,130	\$ 31,996,981	\$ 31,996,981	
Interest	112,224,318	99,124,367	91,276,045	84,568,061	
Changes of benefit terms	-	-	49,721,211	-	
Differences between expected and		0.005.400			
actual experience	-	8,235,183	-	-	
Changes of assumptions Benefit payments, including	-	94,194,565	31,534,870	-	
refunds of member contributions	(77,717,794)	(72,799,275)	(68,086,158)	(61,338,289)	
Net change in Total Pension Liability	\$ 77,242,564	\$ 164,738,970	\$ 136,442,949	\$ 55,226,753	
Total Pension Liability-beginning	\$1,444,178,575	\$ 1,279,439,605	\$ 1,142,996,656	\$ 1,087,769,903	
Total Pension Liability-ending (a)	\$1,521,421,139	\$ 1,444,178,575	\$ 1,279,439,605	\$ 1,142,996,656	
, ,					
		Fiduciary Net Posi	tion		
Contributionsemployer	\$ 50,599,326	\$ 48,574,831	\$ 44,986,040	\$ 39,519,038	
Contributionsmember	31,592,837	29,032,767	52,111,046	27,066,085	
Net investment income	103,123,070	40,509,286	1,177,960	40,135,521	
	100,120,010	40,000,200	1,111,300	40,133,321	
Benefit payments, including	(== = 1 = = 0.4)	(======================================	(00.000.450)	(04 000 000)	
refunds of member contributions	(77,717,794)	(72,799,275)	(68,086,158)	(61,338,289)	
Administrative expenses	(1,145,509)	(1,170,184)	(1,055,662)	(1,054,297)	
Other	(7,043,455)	(7,195,247)	(7,429,438)	(3,178,354)	
Net change in Fiduciary Net Position	\$ 99,408,475	\$ 36,952,178	\$ 21,703,788	\$ 41,149,704	
Fiduciary Net Position-beginning	\$ 606,584,812	\$ 569,632,634	\$ 547,928,846	\$ 506,779,142	
Fiduciary Net Positionpeginning  Fiduciary Net Positionending (b)	\$ 705,993,287	\$ 606,584,812	\$ 569,632,634	\$ 547,928,846	
riducially Net Fosition—ending (b)	ψ 105,995,281	Ψ 000,384,812	Ψ 309,032,034	ÿ 347,928,840	
	Net P	Pension Liability and Re	elated Ratios		
Net Pension Liability-ending (a) – (b)	¢ 015/107 050	\$ 837,593,763	\$ 709,806,971	\$ 595,067,810	
Net Pension Liability—ending (a) — (b)	\$ 615,427,652	\$ 637,593,763	\$ 709,800,971	\$ 595,067,810	
Fiduciary Net Position as a					
percentage of the Total Pension					
Liability	46.40%	42.00%	44.52%	47.94%	
Liability	40.40%	42.00%	44.52%	41.34%	
Covered Payroll	\$ 271,037,131	\$ 282,918,805	\$ 269,899,678	\$ 252,829,591	
Net Pension Liability as a					
percentage of Covered Payroll	300.85%	296.05%	262.99%	235.36%	

Note: Only 9 years are presented here and on the previous page, beginning with the year of implementation; 10 years of information will be required.

## **Exhibit 3.2 - Schedule of Employer Contributions**

Fiscal Year Ended December 31		2022		2021	2020	2019	2018
Actuarially Determined Contribution	\$ 81,	,309,364	\$	73,946,616	\$ 67,269,029	\$ 60,887,972	\$ 55,674,504
Contributions in relation to the							
Actuarially Determined Contribution	\$ 81	,309,364	\$	73,946,616	\$ 67,269,029	\$ 60,887,972	\$ 55,674,504
Contribution deficiency (excess)	\$	-	\$	-	\$ -	\$ -	\$ -
Covered Payroll	\$ 341	,237,099	\$ :	316,455,433	\$ 321,050,145	\$ 301,686,927	\$ 273,888,022
Contributions as a percentage of							
Covered Payroll		23.83%		23.37%	20.95%	20.18%	20.33%

The contribution shown above, \$81,309,364, represents the actual contributions made by member units of the Worcester Regional Retirement System for the 2023 fiscal year.

## **Exhibit 3.2 - Schedule of Employer Contributions (continued)**

Fiscal Year Ended December 31		2017	2016	2015	2014	2013
Actuarially Determined Contribution	\$ 50,	599,326	\$ 48,574,831	\$ 44,986,040	\$ 39,519,038	
Contributions in relation to the						
Actuarially Determined Contribution	\$ 50,	599,326	\$ 48,574,831	\$ 44,986,040	\$ 39,519,038	
Contribution deficiency (excess)	\$	-	\$ 	\$ 	\$ 	
Covered Payroll	\$ 271,	037,131	\$ 282,918,805	\$ 269,899,678	\$ 252,829,591	
Contributions as a percentage of Covered Payroll		18.67%	17.17%	16.67%	15.63%	
•						

Note: Only 9 years are presented here and on the previous page, beginning with the year of implementation; 10 years of information will be required.

#### **Exhibit 3.3 - Investment Returns**

Fiscal Year Ended December 31	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Annual money-weighted rate of										
return, net of investment expense	-11.68%	19.74%	12.03%	16.55%	-2.75%	16.71%	7.06%	0.05%	7.79%	

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.

Note: Only 9 years are presented here, beginning with the year of implementation; 10 years of information will be required.

## 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 of the 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 shown in Exhibit 4.3 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:

Valuation date	January 1, 2	January 1, 2022					
Actuarial cost method	Entry Age No	ormal					
Amortization method	UAAL	Increasing dollar amount at 4% to reduce the Unfunded Actuarial Accrued Liability to zero on or before June 30, 2036. The annual increase in appropriation is further limited to 9.95%.					
	2002, 2003 ERI	Increasing dollar amount at 4.5% to reduce the 2002 and 2003 ERI Actuarial Accrued Liability to zero on or before June 30, 2028.					
Asset valuation method		al Value of Assets is the market value of assets as of the ate reduced by the sum of:					
	a) b) c)	80% of gains and losses of the prior year, 60% of gains and losses of the second prior year, 40% of gains and losses of the third prior year, and					

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.

20% of gains and losses of the fourth prior year.

## Notes to the Required Supplementary Information

Inflation 2.4% per year

Salary increases Group 1: 6% - 4.25%, based on service

Group 4: 7% - 4.75%, based on service

Payroll growth 3.5% per year

Investment rate of return 7.25%, net of pension plan investment expense, including inflation.

#### 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, 2022		
	Experi Loss		· ·	ience ins	in Pe	nts Recognized nsion Expense through mber 31, 2022	Out	ferred flows of sources	Ir	Deferred of the sources
Year	(a	)	(1	o)		(c)	(a	ı) - (c)	(	(b) + (c)
2017	\$	-	\$	-	\$	-	\$	-	\$	-
2018		-	8,1	10,737		(6,944,125)		-		1,166,612
2019		-		-		-		-		-
2020		-	23,1	71,133		(12,173,976)		-	1	0,997,157
2021		-		-		-		-		-
2022		-	23,50	65,571		(4,261,405)		-	1	9,304,166
Total							\$	-	\$ 3	1,467,935

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.

					ces at · 31, 2022
	Increases in the Total Pension Liability	Decreases in the Total Pension Liability	Amounts Recognized in Pension Expense through December 31, 2022	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(c)	(a) - (c)	(b) + (c)
2017	\$ -	\$ -	\$ -	\$ -	\$ -
2018	-	-	-	-	-
2019	17,826,312	-	12,209,804	5,616,508	-
2020	35,705,832	-	18,759,633	16,946,199	-
2021	49,140,442	-	17,212,064	31,928,378	-
2022	-	-	-	-	-
Total				\$ 54,491,085	\$ -

#### 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.

					ces at · 31, 2022
	Investment Earnings Less Than Projected	Investment Earnings Greater Than Projected	Amounts Recognized in Pension Expense through December 31, 2022	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(c)	(a) - (c)	(b) + (c)
2017 2018	\$ - 72,217,350	\$ 56,256,688 -	\$ (56,256,688) 72,217,350	\$ - -	\$ - -
2019	-	57,470,605	(45,976,484)	-	11,494,121
2020 2021	-	36,316,766 110,574,304	(21,790,059) (44,229,722)	<del>-</del> -	14,526,707 66,344,582
2022	202,198,820	-	40,439,764	161,759,056	
Subtotal				\$161,759,056	\$ 92,365,410
Net				\$ 69,393,646	\$ -

#### 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.

						Balan December	
	Proportionate Share* Outflows	Proportionate Share* Inflows	in Pe	unts Recognized ension Expense through ember 31, 2022	Οι	Deferred utflows of esources	Deferred Inflows of Resources
Year	(a)	(b)		(c)		(a) - (c)	(b) - (c)
2017	\$ 22,317,342	\$22,317,342	\$	22,317,342	\$	-	\$ -
2018	2,319,170	2,319,170		1,985,590		333,580	333,580
2019	12,790,409	12,790,409		8,760,551		4,029,858	4,029,858
2020	2,440,894	2,440,894		1,282,433		1,158,461	1,158,461
2021	15,038,822	15,038,822		5,267,540		9,771,282	9,771,282
2022	1,929,085	1,929,085		348,837		1,580,248	1,580,248
Total					\$ 1	6,873,429	\$ 16,873,429

<sup>\*</sup> 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	
2023	\$ 7,993,114
2024	\$ 20,165,452
2025	\$ 24,228,135
2026	\$ 42,288,641
2027	\$ (2,258,546)
Thereafter	\$ -
Total Deferred Outflows	\$ 140,758,160
Total Deferred Inflows	\$ 48,341,364

#### 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, 2022 is presented below:

#### Fiscal Year Ended December 31, 2022

1.	Service cost		\$ 55,578,145
2.	Interest on the total pension liability		
	a. Total Pension Liability, beginning of year	1,921,828,296	
	b. Service cost, beginning of year	55,578,145	
	c. Benefit payments, including refunds of employee contributions	(108,492,192)	
	d. Interest on Total Pension Liability		139,429,125
3.	Differences between expected and actual experience		(9,708,222)
4.	Changes of benefit terms		-
5.	Changes of assumptions		17,911,694
6.	Employee contributions		(41,198,378)
7.	Projected earnings on pension plan investments		
	a. Fiduciary Net Position, beginning of year	1,079,814,993	
	b. Employer contributions	81,309,364	
	c. Employee contributions	41,198,378	
	d. Benefit payments, including refunds of employee contributions	(108,492,192)	
	e. Administrative expenses and other	(13,468,390)	
	f. Total projected earnings		(78,336,534)
	Differences between projected and actual earnings on		
	plan investments		14,010,899
9.	Pension plan administrative expenses		1,174,806
10.	Other changes in Fiduciary Net Position		12,293,584
11.	Total Pension Expense		\$111,155,119

#### **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 2022 and 2021, based on employer contributions made for the 2023 fiscal year and 2022 fiscal year, respectively, shows the proportionate relationship of each employer to all employers and each employer's allocation percentage.

	20	2021			
Entity	Employer Contribution	Proportionate Share of Total Employer Contribution	Employer Contribution	Proportionate Share of Total Employer Contribution	
Ashburnham Westminster Regional	1,132,577	1.392923% 1.068315%	1,035,010	1.399672%	
Ashburnham-Westminster Regional Athol	868,640		791,626	1.070537%	
Athol Housing Authority	1,994,321 48,737	2.452757% 0.059940%	1,802,550 44,249	2.437637% 0.059839%	
Athol-Royalston Regional	741,299	0.039940%	670,136	0.059639%	
Auburn	4,279,768	5.263561%	3,900,522	5.274781%	
Auburn Housing Authority	4,279,708 85,236	0.104829%	77,473	0.104769%	
Auburn Water District	131,100	0.161236%	118,050	0.159642%	
Barre	446,614	0.549277%	410,048	0.554519%	
Barre Housing Authority	33,684	0.041427%	30,207	0.040850%	
Berlin	605,652	0.744874%	551,425	0.745707%	
Berlin-Boylston Regional	346,494	0.426143%	319,456	0.432009%	
Blackstone	1,015,222	1.248592%	920,201	1.244413%	
Blackstone Housing Authority	21,232	0.026113%	18,702	0.025291%	
Blackstone-Millville Regional	671,346	0.825669%	610,102	0.825057%	
Bolton	659,084	0.810588%	602,296	0.814501%	
Boylston	770,858	0.948056%	705,353	0.953868%	
Boylston Water District	16,669	0.020501%	14,790	0.020001%	
Brookfield	399,212	0.490979%	364,534	0.492969%	
Charlton	1,889,749	2.324147%	1,725,580	2.333548%	
Cherry Valley-Rochdale Water	73,262	0.090103%	65,335	0.088354%	
Cherry Valley Sewer District	-	0.000000%	-	0.000000%	
Douglas	1,396,060	1.716973%	1,277,098	1.727054%	
Dudley	1,197,724	1.473046%	1,091,367	1.475885%	
Dudley Housing Authority	24,975	0.030716%	22,528	0.030465%	
Dudley-Charlton Regional	1,352,035	1.662828%	1,229,539	1.662739%	
East Brookfield	203,155	0.249854%	185,493	0.250847%	
Grafton	2,579,015	3.171855%	2,348,007	3.175273%	
Grafton Housing Authority	61,868	0.076090%	55,802	0.075463%	
Hardwick	240,011	0.295182%	218,312	0.295229%	
Harvard	1,241,423	1.526790%	1,128,337	1.525881%	
Hillcrest Water District	11,342	0.013949%	10,010	0.013537%	

## **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 2022 and 2021, based on employer contributions made for the 2023 fiscal year and 2022 fiscal year, respectively, shows the proportionate relationship of each employer to all employers and each employer's allocation percentage.

	20	22	2021			
Entity	Employer Contribution	Proportionate Share of Total Employer Contribution	Employer Contribution	Proportionate Share of Total Employer Contribution		
Holden	2,972,584	3.655894%	2,690,938	3.639028%		
Holden Housing Authority	26,411	0.032482%	23,264	0.031461%		
Hopedale	1,316,665	1.619328%	1,201,711	1.625106%		
Hopedale Housing Authority	3,821	0.004699%	3,365	0.004551%		
Hubbardston	351,383	0.432156%	323,533	0.437522%		
Lancaster	838,022	1.030659%	760,156	1.027979%		
Lancaster Housing Authority	17,221	0.021180%	15,694	0.021223%		
Lancaster Sewer	2,891	0.003556%	2,778	0.003757%		
Leicester	1,717,353	2.112122%	1,556,343	2.104685%		
Leicester Housing Authority	65,967	0.081131%	60,068	0.081232%		
Leicester Water District	58,500	0.071947%	56,036	0.075779%		
Lunenburg	1,689,147	2.077432%	1,531,070	2.070507%		
Lunenburg Housing Authority	2,560	0.003148%	2,372	0.003208%		
Lunenburg Water District	75,899	0.093346%	66,753	0.090272%		
Mendon	909,987	1.119166%	828,542	1.120460%		
Mendon-Upton Regional	1,013,683	1.246699%	924,930	1.250808%		
Millbury	2,429,017	2.987377%	2,200,435	2.975708%		
Millbury Housing Authority	127,765	0.157134%	115,397	0.156054%		
Millville	225,736	0.277626%	211,847	0.286486%		
Narragansett Regional	617,693	0.759682%	565,061	0.764147%		
Nashoba Regional	1,329,615	1.635254%	1,210,965	1.637621%		
Nashoba Valley Dispatch	60,987	0.075006%	56,172	0.075963%		
New Braintree	73,160	0.089977%	65,854	0.089056%		
Northboro	2,812,709	3.459268%	2,548,279	3.446106%		
Northboro Housing Authority	89,557	0.110144%	81,206	0.109817%		
Northboro-Southboro Regional	567,141	0.697510%	518,953	0.701794%		
North Brookfield	725,548	0.892330%	661,563	0.894649%		
North Brookfield Housing Authority	24,200	0.029763%	21,896	0.029611%		
Oakham	85,337	0.104953%	77,089	0.104250%		
Oxford	2,718,666	3.343608%	2,476,316	3.348789%		
Oxford Housing Authority	94,854	0.116658%	85,990	0.116287%		
Oxford-Rochdale Sewer District	46,629	0.057348%	42,156	0.057009%		

#### **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 2022 and 2021, based on employer contributions made for the 2023 fiscal year and 2022 fiscal year, respectively, shows the proportionate relationship of each employer to all employers and each employer's allocation percentage.

2022

Entity	Employer Contribution	Proportionate Share of Total Employer Contribution	Employer Contribution	Proportionate Share of Total Employer Contribution
Paxton	999,629	1.229414%	914,200	1.236297%
Petersham	204,612	0.251646%	185,492	0.250846%
Phillipston	164,088	0.201807%	150,222	0.203149%
Princeton	523,409	0.643725%	471,980	0.638271%
Quabbin Regional	1,358,209	1.670421%	1,230,031	1.663404%
Quaboag Regional	469,671	0.577635%	435,854	0.589417%
Royalston	74,266	0.091338%	65,881	0.089093%
Rutland	850,288	1.045744%	775,974	1.049371%
Southboro	2,558,308	3.146388%	2,321,536	3.139476%
Southboro Housing Authority	33,135	0.040752%	30,823	0.041683%
Spencer	1,202,612	1.479057%	1,092,846	1.477885%
Spencer-East Brookfield Regional	782,690	0.962607%	714,866	0.966733%
Spencer Housing Authority	68,053	0.083696%	61,064	0.082578%
Sterling	1,379,365	1.696441%	1,256,404	1.699069%
Sterling Housing Authority	12,489	0.015360%	11,448	0.015481%
Sturbridge	1,825,683	2.245354%	1,674,824	2.264910%
Sutton	1,564,366	1.923968%	1,419,336	1.919406%
Tantasqua Regional	917,249	1.128098%	819,211	1.107841%
Templeton	1,064,999	1.309811%	964,560	1.304400%
Templeton Housing Authority	59,185	0.072790%	54,770	0.074067%
Upton	841,271	1.034655%	757,724	1.024691%
Uxbridge	2,416,713	2.972244%	2,194,484	2.967660%
Uxbridge Housing Authority	77,195	0.094940%	69,494	0.093979%
Wachusett Regional	2,570,982	3.161975%	2,350,170	3.178198%
Warren	499,592	0.614434%	462,757	0.625799%
Warren Water District	24,264	0.029842%	22,179	0.029993%
M/ +l		0.000.4000/		0.000=000/

Westboro Housing Authority

West Boylston Water District

West Boylston Housing Authority

Westboro

West Boylston

West Brookfield

6.839560%

0.076319%

2.048022%

0.024913%

0.103468%

0.454828%

2021

5,584,708

1,657,286

61,447

20,162

85,383

367,845

6.868468%

0.075572%

2.038247%

0.024797%

0.105010%

0.452402%

5,057,623

1,514,443

56,435

18,422

76,511

336,330

## **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 2022 and 2021, based on employer contributions made for the 2023 fiscal year and 2022 fiscal year, respectively, shows the proportionate relationship of each employer to all employers and each employer's allocation percentage.

	20	22	2021		
Entity	Employer Contribution	Proportionate Share of Total Employer Contribution	Employer Contribution	Proportionate Share of Total Employer Contribution	
Westminster	1,150,937	1.415504%	1,039,322	1.405503%	
Winchendon	2,052,984	2.524905%	1,865,573	2.522865%	
Winchendon Housing Authority	157,217	0.193357%	142,957	0.193325%	
Total	81,309,364	100.000000%	73,946,616	100.000000%	

#### 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 2022:

- ♦ 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 Contribution 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 2015.
- ◆ Net difference between projected and actual investment earnings (loss on pension plan investments for 2022) 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 2015.

### **Exhibit 4.4 - Pension Amounts by Employer**

#### For 2022 (continued):

- ♦ There are no differences between employer contributions and the proportionate share of contributions because the Plan utilizes employer contributions as the method of allocation.
- ◆ 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

		lan Investments/ let External Cash Flows (a)	Periods Invested (b)	Period Weight (c)=(b)÷12	(d)	=(a) x (1+r <sub>mw</sub> ) <sup>(c)</sup>
Beginning value - January 1, 2022	\$	1,079,814,993	12	1.00	\$	953,651,598
Monthly net external cash flows:						
January		(3,501,612)	11	0.92		(3,124,676)
February		(5,872,839)	10	0.83		(5,295,192)
March		(6,376,727)	9	0.75		(5,809,358)
April		(5,793,181)	8	0.67		(5,332,662)
May		(5,236,992)	7	0.58		(4,870,858)
June		(3,871,911)	6	0.50		(3,638,694)
July		67,348,881	5	0.42		63,950,981
August		(5,794,906)	4	0.33		(5,559,809)
September		(7,530,317)	3	0.25		(7,300,008)
October		(5,128,547)	2	0.17		(5,023,438)
November		(8,871,690)	1	0.08		(8,780,307)
December		(6,367,710)	0	0.00	0.00	
Ending value - December 31, 2022					\$	956,499,867
Money-weighted rate of return						-11.68%

Note: Beginning and ending values are based on amounts reported in the System's 2022 Annual Statement with GAAP adjustments for 3(8)(c) amounts due to the Commonwealth, 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

	Differences											
	between	Recognition										
	Expected and Actual	Period	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Year	Experience	(Years)	2022	2023	2024	2025	2026	2021	2028	2029	2030	2031
2017	-	5.86	-	-	-	-	-	-	-	-	-	-
2018	(8,110,737)	5.84	(1,388,825)	(1,166,612)	-	-	-	-	-	-	-	-
2019	-	5.84	-	-	-	-	-	-	-	-	-	-
2020	(23,171,133)	5.71	(4,057,992)	(4,057,992)	(4,057,992)	(2,881,173)	-	-	-	-	-	-
2021	-	5.71	-	-	-	-	-	-	-	-	-	-
2022	(23,565,571)	5.53	(4,261,405)	(4,261,405)	(4,261,405)	(4,261,405)	(4,261,405)	(2,258,546)	-	-	-	-
Net Increa	ase (Decrease) in Pension	Expense	(9,708,222)	(9,486,009)	(8,319,397)	(7,142,578)	(4,261,405)	(2,258,546)	-	-	-	-
		Recognition										
	Changes of	Period										
Year	Assumptions	(Years)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
2017	-	5.86	-	-	-	-	-	-	-	-	-	-
2018	-	5.84	-	-	-	-	-	-	-	-	-	-
2019	17,826,312	5.84	3,052,451	3,052,451	2,564,057	-	-	-	-	-	-	-
2020	35,705,832	5.71	6,253,211	6,253,211	6,253,211	4,439,777	-	-	-	-	-	-
2021	49,140,442	5.71	8,606,032	8,606,032	8,606,032	8,606,032	6,110,282	-	-	-	-	-
2022	-	5.53	-	-	-	-	-	-	-	-	-	-

## 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)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
2017	(56,256,688)	5	-	-	-	-	-	-	-	-	-	-
2018	72,217,350	5	14,443,470	-	-	-	-	-	-	-	-	-
2019	(57,470,605)	5	(11,494,121)	(11,494,121)	-	-	-	-	-	-	-	-
2020	(36,316,766)	5	(7,263,353)	(7,263,353)	(7,263,354)	-	-	-	-	-	-	-
2021	(110,574,304)	5	(22,114,861)	(22,114,861)	(22,114,861)	(22,114,860)	-	-	-	-	-	-
2022	202,198,820	5	40,439,764	40,439,764	40,439,764	40,439,764	40,439,764	-	-	-	-	-
Net Incre	ase (Decrease) in Pension	Expense	14.010.899	(432,571)	11,061,549	18,324,904	40.439.764	-	_	-	_	_

	WC	orcester Regional Retirement		
Pension Amounts as of December 31, 2022		System		Ashburnham
◆ Current Proportionate Share				1.392923%
◆ Prior Proportionate Share				1.399672%
Beginning Net Pension Liability	\$	842,013,303	\$	11,785,424
Ending Net Pension Liability	\$	1,028,277,936	\$	14,323,122
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		966,600
◆ Changes of Assumptions		54,491,085		759,019
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		531,109
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,256,728
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	438,324
◆ Changes of Assumptions	·	-	·	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		107,863
Total Deferred Inflows of Resources	\$	48,341,364	\$	546,187
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,548,305
◆ Net Amortization of Deferred Amounts from Changes in		-		191,007
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	111,155,119	\$	1,739,312
Covered Payroll:	\$	341,237,099	\$	3,858,146
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	14,323,122
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	17,478,068
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	11,655,816
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	213,626
♦ 2024	\$	20,165,452	\$	390,306
♦ 2025 • 2026	\$	24,228,135	\$	464,297
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641 (2,258,546)	\$ \$	679,632 (37,320)
◆ Z0Z1 ◆ Thereafter	Ф \$	(2,230,340)	э \$	(31,320)
• • • • • • • • • • • • • • • • • • • •	*		τ'	

Pension Amounts as of December 31, 2022	Worcester Regional Retirement System			Ashburnham- Westminster Regional		
◆ Current Proportionate Share				1.068315%		
♦ Prior Proportionate Share				1.070537%		
Beginning Net Pension Liability	\$	842,013,303	\$	9,014,065		
Ending Net Pension Liability	\$	1,028,277,936	\$	10,985,246		
Total Deferred Outflows of Resources:						
♦ Differences Between Expected and Actual Experience	\$	-	\$	-		
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		741,343		
◆ Changes of Assumptions		54,491,085		582,136		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		-		
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,323,479		
Total Deferred Inflows of Resources:						
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	336,177		
◆ Changes of Assumptions		-		-		
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		81,810		
Total Deferred Inflows of Resources	\$	48,341,364	\$	417,987		
Employer Pension Expense:						
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,187,487		
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		43,784		
Total Employer Pension Expense	\$	111,155,119	\$	1,231,271		
Covered Payroll:	\$	341,237,099	\$	4,419,463		
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:				
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	10,985,246		
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	13,404,960		
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	8,939,532		
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:		
◆ 2023	\$	7,993,114	\$	60,005		
◆ 2024	\$	20,165,452	\$	193,886		
♦ 2025	\$	24,228,135	\$	239,121		
♦ 2026 • 2027	\$	42,288,641	\$	438,539		
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(26,059)		
▼ Increate	Ψ	<del>-</del>	Ψ	-		

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Athol
◆ Current Proportionate Share				2.452757%
◆ Prior Proportionate Share				2.437637%
Beginning Net Pension Liability	\$	842,013,303	\$	20,525,227
Ending Net Pension Liability	\$	1,028,277,936	\$	25,221,158
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		1,702,057
◆ Changes of Assumptions		54,491,085		1,336,534
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		307,146
Total Deferred Outflows of Resources	\$	140,758,160	\$	3,345,737
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	771,832
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		13,876
Total Deferred Inflows of Resources	\$	48,341,364	\$	785,708
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	2,726,365 (1,089,621)
Total Employer Pension Expense	\$	111,155,119	\$	1,636,744
Covered Payroll:	\$	341,237,099	\$	6,643,968
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	25,221,158
◆ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	30,776,607
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	20,524,379
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	281,456
◆ 2024	\$	20,165,452	\$	590,084
♦ 2025	\$	24,228,135	\$	659,013
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641	\$	1,071,744
◆ 2027 ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(42,268)
▼ Increated	Ψ	-	Ψ	-

Pension Amounts as of December 31, 2022	Worcester Regional Retirement System			Athol Housing Authority		
◆ Current Proportionate Share				0.059940%		
◆ Prior Proportionate Share				0.059839%		
Beginning Net Pension Liability	\$	842,013,303	\$	503,853		
Ending Net Pension Liability	\$	1,028,277,936	\$	616,352		
Total Deferred Outflows of Resources:						
♦ Differences Between Expected and Actual Experience	\$	-	\$	-		
<ul> <li>♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		41,595		
◆ Changes of Assumptions		54,491,085		32,662		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		16,770		
Total Deferred Outflows of Resources	\$	140,758,160	\$	91,027		
Total Deferred Inflows of Resources:						
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	18,862		
<ul> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		29,154		
Total Deferred Inflows of Resources	\$	48,341,364	\$	48,016		
Employer Pension Expense:						
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	66,627		
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(71,393)		
Total Employer Pension Expense	\$	111,155,119	\$	(4,766)		
Covered Payroll:	\$	341,237,099	\$	336,935		
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:				
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	616,352		
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	752,115		
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	501,573		
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensior	Expense:		
◆ 2023	\$	7,993,114	\$	(5,896)		
<ul><li>◆ 2024</li></ul>	\$	20,165,452	\$	3,018		
♦ 2025	\$	24,228,135	\$	18,752		
◆ 2026 ◆ 2027	\$	42,288,641	\$	28,404		
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(1,267)		
▼ Increater	Ψ	-	Ψ	-		

Pension Amounts as of December 31, 2022	Worcester Regional Retirement System			Athol-Royalston Regional		
◆ Current Proportionate Share				0.911702%		
◆ Prior Proportionate Share				0.906243%		
Beginning Net Pension Liability	\$	842,013,303	\$	7,630,686		
Ending Net Pension Liability	\$	1,028,277,936	\$	9,374,829		
Total Deferred Outflows of Resources:						
♦ Differences Between Expected and Actual Experience	\$	-	\$	-		
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		632,663		
◆ Changes of Assumptions		54,491,085		496,796		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		76,179		
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,205,638		
Total Deferred Inflows of Resources:						
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	286,894		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		187,676		
Total Deferred Inflows of Resources	\$	48,341,364	\$	474,570		
Employer Pension Expense:						
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,013,403		
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(617,522)		
Total Employer Pension Expense	\$	111,155,119	\$	395,881		
Covered Payroll:	\$	341,237,099	\$	3,090,644		
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:				
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	9,374,829		
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	11,439,818		
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	7,629,013		
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:		
<b>♦</b> 2023	\$	7,993,114	\$	24,248		
<b>♦</b> 2024	\$	20,165,452	\$	137,925		
♦ 2025	\$	24,228,135	\$	210,066		
♦ 2026 • 2027	\$	42,288,641	\$	374,681		
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(15,852)		
▼ Increate	φ	-	φ	-		

♦ Current Proportionate Share         5.263561%           ♦ Prior Proportionate Share         5.2747818           Beginning Net Pension Liability         \$ 842,013,303         \$ 44,414,357           Ending Net Pension Liability         \$ 1,028,277,936         \$ 54,124,037           Total Deferred Outflows of Resources:         • Differences Between Expected and Actual Experience         \$         \$           • Net Difference Between Expected and Actual Investment         69.393,646         3,652,577           Earnings on Pension Plan Investments         54,491,085         2,868,172           • Changes of Assumptions         54,491,085         2,868,172           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         329,119           Total Deferred Inflows of Resources         \$ 31,467,935         1,656,334           • Changes of Assumptions             • Changes of Assumptions             • Changes of Plan Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions         16,873,429         277,200           Employer Pension Expense:         • 111,155,119         \$ 5,850,718           • Proportionate Share of Plan Pension Expense	Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Auburn
Reginning Net Pension Liability	◆ Current Proportionate Share				5.263561%
Ending Net Pension Liability  Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Net Differences Between Projected and Actual Investment Earnings on Pension Plan Investments  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Inflows of Resources:  ◆ Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Inflows of Resources  ◆ Proportionate Share of Plan Pension Expense  ◆ Proportionate Share of Plan Pension Expense  ◆ Proportion and Differences Between Employer Contributions  Total Employer Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions  Total Employer Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense  ◆ Ourrent discount rate: 7.25%  ◆ \$ 3,41,237,099  \$ 17,198,399  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 8.25%  \$ 1,028,277,936  \$ 54,124,037  • 1% decrease in the discount rate: 8.25%  \$ 33,652,577  \$ 1,028,277,936  \$ 54,124,037  • 1% increase in the discount rate: 8.25%  \$ 33,68.124  \$ 2,025  \$ 2,025  \$ 24,228,135  \$ 1,141,362  \$ 2,188,388	◆ Prior Proportionate Share				5.274781%
Total Deferred Outflows of Resources:           ♦ Differences Between Expected and Actual Experience         \$	Beginning Net Pension Liability	\$	842,013,303	\$	44,414,357
◆ Differences Between Expected and Actual Experience         \$         \$	Ending Net Pension Liability	\$	1,028,277,936	\$	54,124,037
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         3,652,577           Earnings on Pension Plan Investments         54,491,085         2,868,172           Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         329,119           Total Deferred Outflows of Resources:	Total Deferred Outflows of Resources:				
Earnings on Pension Plan Investments         54,491,085         2,868,172           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         329,119           Total Deferred Outflows of Resources         140,758,160         \$6,849,868           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$31,467,935         \$1,656,334           ◆ Changes of Assumptions         -         277,200           Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$48,341,364         \$1,933,534           Employer Pension Expense:         Proportionate Share of Plan Pension Expense         \$111,155,119         \$5,850,718           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$111,155,119         \$6,314,237           Total Employer Pension Expense         \$111,155,119         \$6,314,237           Covered Payroll:         \$341,237,099         \$17,198,399           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • (2026,45,297)         \$46,045,907         \$47,027         \$46,045,907         \$47,012,125         \$66,045,907         \$47,037         \$47,012,125         \$66,045,907         \$47,037 <td>♦ Differences Between Expected and Actual Experience</td> <td>\$</td> <td>-</td> <td>\$</td> <td>-</td>	♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         329,119           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 6,849,868           Total Deferred Inflows of Resources:         ▶ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,656,334           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         277,200           Employer Pension Expense:         \$ 48,341,364         \$ 1,933,534           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 5,850,718           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 6,314,237           Covered Payroll:         \$ 341,237,099         \$ 17,198,399           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         Current discount rate: 7.25%         \$ 1,028,277,936         \$ 54,124,037           • 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 54,124,037           • 1% decrease in the discount rate: 8.25%         \$ 36,788,149         \$ 44,044,855           Deferred Outflows of Resources and Deferred			69,393,646		3,652,577
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         329,119           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 6,849,868           Total Deferred Inflows of Resources:         ▶ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,656,334           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         277,200           Employer Pension Expense:         \$ 48,341,364         \$ 1,933,534           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 5,850,718           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 6,314,237           Covered Payroll:         \$ 341,237,099         \$ 17,198,399           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         Current discount rate: 7.25%         \$ 1,028,277,936         \$ 54,124,037           • 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 54,124,037           • 1% decrease in the discount rate: 8.25%         \$ 36,788,149         \$ 44,044,855           Deferred Outflows of Resources and Deferred	◆ Changes of Assumptions		54,491,085		2,868,172
Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,656,334           ◆ Changes of Assumptions	◆ Changes in Proportion and Differences Between Employer				329,119
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,656,334           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         277,200           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,933,534           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 5,850,718           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         463,519           Proportionate Share of Contributions         \$ 341,237,099         \$ 17,198,399           Covered Payroll:         \$ 341,237,099         \$ 17,198,399           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         •           ◆ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 54,124,037           ◆ 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 66,045,907           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 44,044,855           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 503,031 </td <td>Total Deferred Outflows of Resources</td> <td>\$</td> <td>140,758,160</td> <td>\$</td> <td>6,849,868</td>	Total Deferred Outflows of Resources	\$	140,758,160	\$	6,849,868
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         277,200           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,933,534           Employer Pension Expense:           ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 5,850,718           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 6,314,237           Covered Payroll:         \$ 341,237,099         \$ 17,198,399           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ♦ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 54,124,037           ♦ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 66,045,907           ♦ 1% increase in the discount rate: 8.25%         \$ 336,788,149         \$ 44,044,855           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ♦ 2023         \$ 7,993,114         \$ 503,031           ♦ 2024         \$ 24,228,135         \$ 1,212,196           ♦ 2025         \$ 42,288,641         \$ 2,188,368	Total Deferred Inflows of Resources:				
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         277,200           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,933,534           Employer Pension Expense:         ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 5,850,718           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - 463,519         - 463,519           Total Employer Pension Expense         \$ 111,155,119         \$ 6,314,237           Covered Payroll:         \$ 341,237,099         \$ 17,198,399           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 54,124,037         • 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 66,045,907         • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 44,044,855           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 503,031         • 2024         \$ 20,165,452         \$ 1,141,362         • 2025         \$ 24,228,135         \$ 1,212,196         • 2026         \$ 42,288,641         \$ 2,188,368	◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	1,656,334
Contributions and Proportionate Share of Contributions           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,933,534           Employer Pension Expense:	◆ Changes of Assumptions		-		-
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 5,850,718  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 6,314,237  Covered Payroll: \$ 341,237,099 \$ 17,198,399  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 54,124,037  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 66,045,907  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 44,044,855  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 503,031  ◆ 2024 \$ 20,165,452 \$ 1,141,362  ◆ 2025 \$ 24,228,135 \$ 1,212,196  ◆ 2026 \$ 24,228,135 \$ 1,212,196			16,873,429		277,200
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 6,314,237</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 17,198,399</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 54,124,037</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 66,045,907</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>♦ 836,788,149</li> <li>♦ 44,044,855</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 7,993,114</li> <li>♦ 503,031</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♣ 1,141,362</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♣ 1,212,196</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 2,188,368</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	1,933,534
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions       -       463,519         Total Employer Pension Expense       \$ 111,155,119       \$ 6,314,237         Covered Payroll:       \$ 341,237,099       \$ 17,198,399         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:       •	Employer Pension Expense:				
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$\frac{111,155,119}{\$}\$\$ \$\frac{6,314,237}{\$}\$\$  Covered Payroll: \$\frac{341,237,099}{\$}\$\$ \$\frac{17,198,399}{\$}\$\$  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ♦ Current discount rate: 7.25% \$\frac{1,028,277,936}{\$}\$\$ \$\frac{54,124,037}{\$}\$\$ \$\frac{1}{6}\$\$ \$\frac{6,045,907}{\$}\$\$ \$\frac{1}{6}\$\$ \$\frac{1}{6}\$	◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	5,850,718
Covered Payroll:       \$ 341,237,099       \$ 17,198,399         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 54,124,037         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 66,045,907         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 44,044,855         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 503,031         ♦ 2024       \$ 20,165,452       \$ 1,141,362         ♦ 2025       \$ 24,228,135       \$ 1,212,196         ♦ 2026       \$ 42,288,641       \$ 2,188,368	Proportion and Differences Between Employer Contributions		-		463,519
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 54,124,037         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 66,045,907         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 44,044,855         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 503,031         ◆ 2024       \$ 20,165,452       \$ 1,141,362         ◆ 2025       \$ 24,228,135       \$ 1,212,196         ◆ 2026       \$ 42,288,641       \$ 2,188,368	Total Employer Pension Expense	\$	111,155,119	\$	6,314,237
♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 54,124,037         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 66,045,907         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 44,044,855         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 503,031         ♦ 2024       \$ 20,165,452       \$ 1,141,362         ♦ 2025       \$ 24,228,135       \$ 1,212,196         ♦ 2026       \$ 42,288,641       \$ 2,188,368	Covered Payroll:	\$	341,237,099	\$	17,198,399
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 66,045,907</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 44,044,855</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 503,031</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 1,141,362</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 1,212,196</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 2,188,368</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	int Rat	e:		
♦ 1% increase in the discount rate:       8.25%       \$ 836,788,149       \$ 44,044,855         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 503,031         ♦ 2024       \$ 20,165,452       \$ 1,141,362         ♦ 2025       \$ 24,228,135       \$ 1,212,196         ♦ 2026       \$ 42,288,641       \$ 2,188,368	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	54,124,037
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 503,031         ♦ 2024       \$ 20,165,452       \$ 1,141,362         ♦ 2025       \$ 24,228,135       \$ 1,212,196         ♦ 2026       \$ 42,288,641       \$ 2,188,368					
♦ 2023       \$ 7,993,114       \$ 503,031         ♦ 2024       \$ 20,165,452       \$ 1,141,362         ♦ 2025       \$ 24,228,135       \$ 1,212,196         ♦ 2026       \$ 42,288,641       \$ 2,188,368	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	44,044,855
♦ 2024       \$ 20,165,452       \$ 1,141,362         ♦ 2025       \$ 24,228,135       \$ 1,212,196         ♦ 2026       \$ 42,288,641       \$ 2,188,368	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
♦ 2025       \$ 24,228,135       \$ 1,212,196         ♦ 2026       \$ 42,288,641       \$ 2,188,368		\$		\$	
◆ 2026 \$ 42,288,641 \$ 2,188,368					
1/2/03 d. 1/2/03					
◆ Thereafter \$ - \$ -			(2,230,340)		(120,023)

• Current Proportionate Share         0.104829%           • Prior Proportionate Share         0.104769%           Beginning Net Pension Liability         \$ 842,013,303         \$ 882,167           Ending Net Pension Liability         \$ 1,028,277,936         \$ 1,077,936           Total Deferred Outflows of Resources:         • Uifferences Between Expected and Actual Investment Earnings on Pension Plan Investments         69,393,646         72.745           • Changes of Assumptions         54,491,085         57,123           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         1,393           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         1,440,758,160         \$ 131,261           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         1,873,429         15,198           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         15,198           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 116,853           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 114,739     <	Pension Amounts as of December 31, 2022	Worcester Regional Retirement System			Auburn Housing Authority		
Reginning Net Pension Liability	◆ Current Proportionate Share				0.104829%		
Ending Net Pension Liability \$ 1,028,277,936 \$ 1,077,936  Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience \$	◆ Prior Proportionate Share				0.104769%		
Total Deferred Outflows of Resources:	Beginning Net Pension Liability	\$	842,013,303	\$	882,167		
◆ Differences Between Expected and Actual Experience         \$	Ending Net Pension Liability	\$	1,028,277,936	\$	1,077,936		
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         72,745           € Changes of Assumptions         54,491,085         57,123           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         1,393           Total Deferred Outflows of Resources:         ▼ 140,758,160         ▼ 131,261           Total Deferred Inflows of Resources:         ▼ 31,467,935         ▼ 32,988           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         15,198           € Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         ▼ 48,341,364         ▼ 48,186           Employer Pension Expense:         ▼ 111,155,119         ▼ 116,523           ♦ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions and Proportionate Share of Contributions         ▼ 111,155,119         ▼ 116,523           Total Employer Pension Expense         ▼ 111,155,119         ▼ 116,739           € Covered Payroll:         ▼ 341,237,099         ▼ 315,940           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ▼ 1,254,776,125         ▼ 1,315,372           ♦ 1% decrease in the discount rate: 8.25%         ▼ 1,254,776,125         ▼ 1,315,372	Total Deferred Outflows of Resources:						
Earnings on Pension Plan Investments         54,491,085         57,123           ◆ Changes of Assumptions         54,491,085         57,123           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         1,393           Total Deferred Outflows of Resources         140,758,160         \$ 131,261           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 32,988           ◆ Changes of Assumptions         16,873,429         15,198           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 48,341,364         \$ 48,186           Employer Pension Expense:         Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 116,523           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 341,237,099         \$ 315,940           Covered Payroll:         \$ 341,237,099         \$ 315,940           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • (2074)         \$ 1,028,277,936         \$ 1,077,936           • 1/4 decrease in the discount rate: 6.25%         \$ 1,028,277,936         \$ 1,077,936         \$ 1,315,372           •	♦ Differences Between Expected and Actual Experience	\$	-	\$	-		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16.873,429         1,393           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 131,261           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 32,988           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         15,198           Employer Pension Expense:         \$ 48,341,364         \$ 48,186           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 116,523           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 114,739           Covered Payroll:         \$ 341,237,099         \$ 315,940           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,077,936         \$ 1,077,936         \$ 1,077,936         \$ 1,315,372         \$ 1,3 in,372         \$ 1			69,393,646		72,745		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16.873,429         1,393           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 131,261           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 32,988           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         15,198           Employer Pension Expense:         \$ 48,341,364         \$ 48,186           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 116,523           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 114,739           Covered Payroll:         \$ 341,237,099         \$ 315,940           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,077,936         \$ 1,077,936         \$ 1,077,936         \$ 1,315,372         \$ 1,3 in,372         \$ 1	◆ Changes of Assumptions		54,491,085		57,123		
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ 31,467,935 \$ 32,988   ♦ Changes of Assumptions	◆ Changes in Proportion and Differences Between Employer		16,873,429				
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 32,988           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         15,198           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 48,186           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 116,523           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         (1,784)           Total Employer Pension Expense         \$ 111,155,119         \$ 114,739           Covered Payroll:         \$ 341,237,099         \$ 315,940           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         •         •           • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,077,936           • 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 1,077,936           • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 877,199           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 1,448      <	Total Deferred Outflows of Resources	\$	140,758,160	\$	131,261		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         15,198           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 48,186           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 116,523           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         (1,784)           Total Employer Pension Expense         \$ 111,155,119         \$ 114,739           Covered Payroll:         \$ 341,237,099         \$ 315,940           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,077,936           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 1,315,372           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 877,199           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:	Total Deferred Inflows of Resources:						
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         15,198           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 48,186           Employer Pension Expense:         ▼ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 116,523           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         1 11,155,119         \$ 114,739           Covered Payroll:         \$ 341,237,099         \$ 315,940           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         € Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,077,936         \$ 1,077,936         \$ 17,9936         \$ 1,315,372         \$ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 877,199         Poferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         \$ 2023         \$ 7,993,114         \$ 1,448         \$ 2024         \$ 20,165,452         \$ 15,333         \$ 2025         \$ 24,228,135         \$ 24,228,641         \$ 43,780	♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	32,988		
Contributions and Proportionate Share of Contributions           Employer Pension Expense:         **         48,341,364         **         48,186           Employer Pension Expense:         **	◆ Changes of Assumptions		-		-		
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 116,523  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 114,739  Covered Payroll: \$ 341,237,099 \$ 315,940  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 1,077,936  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 1,315,372  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 877,199  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 1,448  ◆ 2024 \$ 20,165,452 \$ 15,333  ◆ 2025 \$ 24,228,135 \$ 24,829  ◆ 2026 \$ 42,288,641 \$ 43,780			16,873,429		15,198		
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 114,739</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 315,940</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 1,077,936</li> <li>♦ 1,077,936</li> <li>♦ 1,077,936</li> <li>♦ 1,077,936</li> <li>♦ 1,077,936</li> <li>♦ 1,315,372</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 877,199</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 7,993,114</li> <li>♠ 1,448</li> <li>♦ 2024</li> <li>♠ 20,165,452</li> <li>♠ 15,333</li> <li>♦ 2025</li> <li>♠ 24,228,135</li> <li>♠ 24,829</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♠ 43,780</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	48,186		
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 114,739</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 315,940</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>\$ 1,028,277,936</li> <li>\$ 1,077,936</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 1,315,372</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 877,199</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 1,448</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 15,333</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 24,829</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 43,780</li> </ul>		\$	111,155,119	\$	116,523		
Covered Payroll:       \$ 341,237,099       \$ 315,940         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 1,077,936         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 1,315,372         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 877,199         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 1,448         ◆ 2024       \$ 20,165,452       \$ 15,333         ◆ 2025       \$ 24,228,135       \$ 24,829         ◆ 2026       \$ 42,288,641       \$ 43,780	Proportion and Differences Between Employer Contributions		-		(1,784)		
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 1,077,936         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 1,315,372         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 877,199         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 1,448         ◆ 2024       \$ 20,165,452       \$ 15,333         ◆ 2025       \$ 24,228,135       \$ 24,829         ◆ 2026       \$ 42,288,641       \$ 43,780	Total Employer Pension Expense	\$	111,155,119	\$	114,739		
♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 1,077,936         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 1,315,372         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 877,199         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 1,448         ♦ 2024       \$ 20,165,452       \$ 15,333         ♦ 2025       \$ 24,228,135       \$ 24,829         ♦ 2026       \$ 42,288,641       \$ 43,780	Covered Payroll:	\$	341,237,099	\$	315,940		
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 1,315,372</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 877,199</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 7,993,114</li> <li>\$ 1,448</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 15,333</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 24,829</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 43,780</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:				
♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 877,199         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 1,448         ♦ 2024       \$ 20,165,452       \$ 15,333         ♦ 2025       \$ 24,228,135       \$ 24,829         ♦ 2026       \$ 42,288,641       \$ 43,780	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	1,077,936		
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 1,448         ♦ 2024       \$ 20,165,452       \$ 15,333         ♦ 2025       \$ 24,228,135       \$ 24,829         ♦ 2026       \$ 42,288,641       \$ 43,780							
♦ 2023       \$ 7,993,114       \$ 1,448         ♦ 2024       \$ 20,165,452       \$ 15,333         ♦ 2025       \$ 24,228,135       \$ 24,829         ♦ 2026       \$ 42,288,641       \$ 43,780	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	877,199		
♦ 2024       \$ 20,165,452       \$ 15,333         ♦ 2025       \$ 24,228,135       \$ 24,829         ♦ 2026       \$ 42,288,641       \$ 43,780	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:		
♦ 2025       \$ 24,228,135       \$ 24,829         ♦ 2026       \$ 42,288,641       \$ 43,780				\$	·		
<b>♦</b> 2026 \$ 42,288,641 \$ 43,780							
4 2007 b (0.050 E46) b (0.045)	<ul><li>◆ 2026</li><li>◆ 2027</li></ul>						
♦ 2027 \$ (2,258,546) \$ (2,315) ♦ Thereafter \$ - \$			(2,238,346)		(2,315)		

• Current Proportionate Share         0.161236%           • Prior Proportionate Share         0.159642%           Beginning Net Pension Liability         \$ 842,013,303         \$ 1,344,209           Ending Net Pension Liability         \$ 1,028,277,936         \$ 1,657,955           Total Deferred Outflows of Resources:         • Differences Between Expected and Actual Experience         \$         •           • Net Difference Between Expected and Actual Investment Earnings on Pension Plan Investments         69,393,646         111,888           Earnings on Pension Plan Investments         54,491,085         87,859           • Changes of Assumptions         54,491,085         87,859           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         50,1857           Total Deferred Inflows of Resources         31,467,935         50,738           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         51,020           Employer Pension Expense:         • 111,155,119         179,222           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         111,155,119         179,222           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Be	Pension Amounts as of December 31, 2022	Worcester Regional Retirement System			Auburn Water District		
Reginning Net Pension Liability	♦ Current Proportionate Share				0.161236%		
Ending Net Pension Liability \$ 1,028,277,936 \$ 1,657,955    Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience \$	◆ Prior Proportionate Share				0.159642%		
Total Deferred Outflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$	Beginning Net Pension Liability	\$	842,013,303	\$	1,344,209		
◆ Net Differences Between Projected and Actual Experience         \$	Ending Net Pension Liability	\$	1,028,277,936	\$	1,657,955		
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         111,888           € Changes of Assumptions         54,491,085         87,859           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         62,110           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 261,857           Total Deferred Inflows of Resources:           ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 50,738           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         51,020           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 101,758           Employer Pension Expense:         \$ 111,155,119         \$ 179,222           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 164,719           Total Employer Pension Expense         \$ 111,155,119         \$ 169,795           Covered Payroll:         \$ 341,237,099         \$ 658,039           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ♦ Current discount rate:         8.25%         1,254,776,1	Total Deferred Outflows of Resources:						
Earnings on Pension Plan Investments         54,491,085         87,859           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         62,110           Total Deferred Outflows of Resources         140,758,160         \$261,857           Total Deferred Inflows of Resources:         ■ 140,758,160         \$50,738           ◆ Differences Between Expected and Actual Experience         \$31,467,935         \$50,738           ◆ Changes of Assumptions	♦ Differences Between Expected and Actual Experience	\$	-	\$	-		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         62,110           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 261,857           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 50,738           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         51,020           Employer Pension Expense:         \$ 48,341,364         \$ 101,758           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 179,222           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 164,719           Covered Payroll:         \$ 341,237,099         \$ 658,039           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,657,955           ◆ 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 1,657,955           ◆ 1% decrease in the discount rate: 8.25%         \$ 36,788,149         \$ 1,349,204           Deferred Outflows of Resources a			69,393,646		111,888		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         62,110           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 261,857           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 50,738           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         51,020           Employer Pension Expense:         \$ 48,341,364         \$ 101,758           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 179,222           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 164,719           Covered Payroll:         \$ 341,237,099         \$ 658,039           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,657,955           ◆ 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 1,657,955           ◆ 1% decrease in the discount rate: 8.25%         \$ 36,788,149         \$ 1,349,204           Deferred Outflows of Resources a	◆ Changes of Assumptions		54,491,085		87,859		
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ 31,467,935 \$ 50,738 \$ Changes of Assumptions  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Inflows of Resources \$ 48,341,364 \$ 101,758 \$ Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 179,222 \$ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 164,719 \$ 164,719 \$ Covered Payroll: \$ 341,237,099 \$ 658,039 \$ Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 1,657,955 \$ 1,% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 2,023,151 \$ 1,% increase in the discount rate: 8.25% \$ 836,788,149 \$ 1,349,204 \$ Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 2,570 \$ 2024 \$ 20,165,452 \$ 25,103 \$ 2025 \$ 44,228,555 \$ 54,806 \$ 2025 \$ 54,806 \$ 2026 \$ 42,228,355 \$ 54,806 \$ 2026 \$ 42,228,355 \$ 54,806 \$ 2026 \$ 42,228,641 \$ 79,877	◆ Changes in Proportion and Differences Between Employer		16,873,429		62,110		
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 50,738           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         51,020           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 101,758           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 179,222           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         (14,503)           Proportionate Share of Contributions         \$ 341,237,099         \$ 658,039           Covered Payroll:         \$ 341,237,099         \$ 658,039           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         •           • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,657,955           • 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 1,657,955           • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 1,349,204           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 2,570	Total Deferred Outflows of Resources	\$	140,758,160	\$	261,857		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         51,020           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 101,758           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 179,222           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         (14,503)           Total Employer Pension Expense         \$ 111,155,119         \$ 164,719           Covered Payroll:         \$ 341,237,099         \$ 658,039           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,657,955           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 2,023,151           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 1,349,204           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 2,570           ◆ 2024         \$ 20,165,452         \$ 25,103         \$ 2,570           ◆ 2025         \$ 24,228,135         \$ 54,806           ◆ 2026         \$ 42,288,641         \$ 79,877	Total Deferred Inflows of Resources:		_	' <u>'</u>			
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         51,020           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 101,758           Employer Pension Expense:         ▼ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 179,222           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - (14,503)           Total Employer Pension Expense         \$ 111,155,119         \$ 164,719           Covered Payroll:         \$ 341,237,099         \$ 658,039           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,657,955         • 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 2,023,151         • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 1,349,204           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 2,570           • 2024         \$ 20,165,452         \$ 25,103         • 20,244         \$ 24,228,641         \$ 79,877           • 2026         \$ 42,288,641         \$ 79,877	♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	50,738		
Contributions and Proportionate Share of Contributions           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 101,758           Employer Pension Expense:	♦ Changes of Assumptions		-		-		
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 179,222  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 164,719  Covered Payroll: \$ 341,237,099 \$ 658,039  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 1,657,955  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 2,023,151  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 1,349,204  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 2,570  ◆ 2024 \$ 20,165,452 \$ 25,103  ◆ 2025 \$ 24,228,135 \$ 54,806  ◆ 2026 \$ 42,228,135 \$ 54,806			16,873,429		51,020		
◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 179,222           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - (14,503)           Total Employer Pension Expense         \$ 111,155,119         \$ 164,719           Covered Payroll:         \$ 341,237,099         \$ 658,039           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,657,955           • 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 2,023,151           • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 1,349,204           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           • 2023         \$ 7,993,114         \$ 2,570           • 2024         \$ 20,165,452         \$ 25,103           • 2025         \$ 24,228,135         \$ 54,806           • 2026         \$ 42,288,641         \$ 79,877	Total Deferred Inflows of Resources	\$	48,341,364	\$	101,758		
◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 179,222           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - (14,503)           Total Employer Pension Expense         \$ 111,155,119         \$ 164,719           Covered Payroll:         \$ 341,237,099         \$ 658,039           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,657,955           • 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 2,023,151           • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 1,349,204           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           • 2023         \$ 7,993,114         \$ 2,570           • 2024         \$ 20,165,452         \$ 25,103           • 2025         \$ 24,228,135         \$ 54,806           • 2026         \$ 42,288,641         \$ 79,877	Employer Pension Expense:						
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$\frac{111,155,119}{341,237,099}\$\$\$\$\frac{164,719}{658,039}\$\$\$\$\$\$\$\$\$Covered Payroll: \$\frac{341,237,099}{341,237,099}\$		\$	111,155,119	\$	179,222		
Covered Payroll:       \$ 341,237,099       \$ 658,039         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 1,657,955         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 2,023,151         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 1,349,204         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 2,570         ◆ 2024       \$ 20,165,452       \$ 25,103         ◆ 2025       \$ 24,228,135       \$ 54,806         ◆ 2026       \$ 42,288,641       79,877	Proportion and Differences Between Employer Contributions		-		(14,503)		
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 1,657,955         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 2,023,151         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 1,349,204         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 2,570         ◆ 2024       \$ 20,165,452       \$ 25,103         ◆ 2025       \$ 24,228,135       \$ 54,806         ◆ 2026       \$ 42,288,641       \$ 79,877	Total Employer Pension Expense	\$	111,155,119	\$	164,719		
♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 1,657,955         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 2,023,151         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 1,349,204         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 2,570         ♦ 2024       \$ 20,165,452       \$ 25,103         ♦ 2025       \$ 24,228,135       \$ 54,806         ♦ 2026       \$ 42,288,641       \$ 79,877	Covered Payroll:	\$	341,237,099	\$	658,039		
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 2,023,151</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 1,349,204</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 2,570</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 25,103</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 54,806</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 79,877</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:				
♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 1,349,204         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 2,570         ♦ 2024       \$ 20,165,452       \$ 25,103         ♦ 2025       \$ 24,228,135       \$ 54,806         ♦ 2026       \$ 42,288,641       \$ 79,877	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	1,657,955		
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 2,570         ♦ 2024       \$ 20,165,452       \$ 25,103         ♦ 2025       \$ 24,228,135       \$ 54,806         ♦ 2026       \$ 42,288,641       \$ 79,877				\$			
♦ 2023       \$ 7,993,114       \$ 2,570         ♦ 2024       \$ 20,165,452       \$ 25,103         ♦ 2025       \$ 24,228,135       \$ 54,806         ♦ 2026       \$ 42,288,641       \$ 79,877	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	1,349,204		
♦ 2024       \$ 20,165,452       \$ 25,103         ♦ 2025       \$ 24,228,135       \$ 54,806         ♦ 2026       \$ 42,288,641       \$ 79,877	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:		
♦ 2025       \$ 24,228,135       \$ 54,806         ♦ 2026       \$ 42,288,641       \$ 79,877		\$		\$	2,570		
<b>♦</b> 2026 \$ 42,288,641 \$ 79,877							
• ZVZ I							
◆ Thereafter \$ - \$			(2,238,346)		(2,257)		

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Barre
◆ Current Proportionate Share				0.549277%
◆ Prior Proportionate Share				0.554519%
Beginning Net Pension Liability	\$	842,013,303	\$	4,669,123
Ending Net Pension Liability	\$	1,028,277,936	\$	5,648,099
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		381,164
◆ Changes of Assumptions		54,491,085		299,307
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		155,343
Total Deferred Outflows of Resources	\$	140,758,160	\$	835,814
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	172,846
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		65,876
Total Deferred Inflows of Resources	\$	48,341,364	\$	238,722
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	610,550
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		43,420
Total Employer Pension Expense	\$	111,155,119	\$	653,970
Covered Payroll:	\$	341,237,099	\$	2,676,719
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	5,648,099
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	6,892,202
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	4,596,289
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<ul><li>◆ 2023</li></ul>	\$	7,993,114	\$	65,896
◆ 2024	\$	20,165,452	\$	142,977
♦ 2025 • 2026	\$	24,228,135	\$	156,216
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641 (2,258,546)	\$	248,957
◆ 2027 ◆ Thereafter	\$ \$	(2,230,340)	\$ \$	(16,954)
• moreuitor	Ψ	-	Ψ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Barre Housing Authority		
◆ Current Proportionate Share				0.041427%	
◆ Prior Proportionate Share				0.040850%	
Beginning Net Pension Liability	\$	842,013,303	\$	343,960	
Ending Net Pension Liability	\$	1,028,277,936	\$	425,984	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		28,748	
◆ Changes of Assumptions		54,491,085		22,574	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		72,025	
Total Deferred Outflows of Resources	\$	140,758,160	\$	123,347	
Total Deferred Inflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	13,036	
◆ Changes of Assumptions		-		-	
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		-	
Total Deferred Inflows of Resources	\$	48,341,364	\$	13,036	
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	46,048	
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	*	-	•	23,836	
Total Employer Pension Expense	\$	111,155,119	\$	69,884	
Covered Payroll:	\$	341,237,099	\$	62,178	
Sensitivity of the Net Pension Liability to Changes in the Discou			·	- , -	
◆ Current discount rate: 7.25%	\$	1,028,277,936	\$	425,984	
◆ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	519,816	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	346,656	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensior	Expense:	
◆ 2023	\$	7,993,114	\$	25,359	
<b>♦</b> 2024	\$	20,165,452	\$	29,166	
♦ 2025	\$	24,228,135	\$	26,854	
♦ 2026	\$	42,288,641	\$	29,366	
• 2027	\$	(2,258,546)	\$	(434)	
◆ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Berlin
◆ Current Proportionate Share				0.744874%
◆ Prior Proportionate Share				0.745707%
Beginning Net Pension Liability	\$	842,013,303	\$	6,278,951
Ending Net Pension Liability	\$	1,028,277,936	\$	7,659,371
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		516,895
◆ Changes of Assumptions		54,491,085		405,890
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		-
Total Deferred Outflows of Resources	\$	140,758,160	\$	922,785
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	234,396
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		376,044
Total Deferred Inflows of Resources	\$	48,341,364	\$	610,440
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	827,965
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	·	-	Ť	(61,828)
Total Employer Pension Expense	\$	111,155,119	\$	766,137
Covered Payroll:	\$	341,237,099	\$	2,001,164
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	7,659,371
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	9,346,496
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	6,233,014
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	(67,301)
◆ 2024	\$	20,165,452	\$	32,208
♦ 2025	\$	24,228,135	\$	104,087
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641	\$	260,898
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(17,547)
• mereaner	Ф	-	Ф	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Berlin-Boylston Regional		
◆ Current Proportionate Share				0.426143%	
◆ Prior Proportionate Share				0.432009%	
Beginning Net Pension Liability	\$	842,013,303	\$	3,637,573	
Ending Net Pension Liability	\$	1,028,277,936	\$	4,381,932	
Total Deferred Outflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	-	\$	-	
<ul> <li>◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		295,716	
◆ Changes of Assumptions		54,491,085		232,210	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		1,095,065	
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,622,991	
Total Deferred Inflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	134,098	
◆ Changes of Assumptions	Ψ	-	Ψ	-	
<ul> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		47,730	
Total Deferred Inflows of Resources	\$	48,341,364	\$	181,828	
Employer Pension Expense:					
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	473,680	
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		327,533	
Total Employer Pension Expense	\$	111,155,119	\$	801,213	
Covered Payroll:	\$	341,237,099	\$	2,326,343	
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	4,381,932	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	5,347,138	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	3,565,912	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:	
◆ 2023	\$	7,993,114	\$	350,035	
♦ 2024	\$	20,165,452	\$	391,958	
<ul><li>◆ 2025</li></ul>	\$	24,228,135	\$	356,161	
◆ 2026	\$	42,288,641	\$	357,726	
<b>♦ 2027</b>	\$	(2,258,546)	\$	(14,717)	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Blackstone
◆ Current Proportionate Share				1.248592%
◆ Prior Proportionate Share				1.244413%
Beginning Net Pension Liability	\$	842,013,303	\$	10,478,120
Ending Net Pension Liability	\$	1,028,277,936	\$	12,838,993
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		866,443
◆ Changes of Assumptions		54,491,085		680,371
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		193,260
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,740,074
Total Deferred Inflows of Resources:				
Differences Between Expected and Actual Experience     Observes of Assumptions	\$	31,467,935	\$	392,906
<ul> <li>◆ Changes of Assumptions</li> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		793,717
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,186,623
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	1,387,874 (1,992)
Total Employer Pension Expense	\$	111,155,119	\$	1,385,882
Covered Payroll:	\$	341,237,099	\$	4,503,114
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	12,838,993
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	15,667,031
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	10,448,068
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	(18,711)
♦ 2024	\$	20,165,452	\$	118,187
♦ 2025	\$	24,228,135	\$	95,584
♦ 2026 • 2027	\$	42,288,641	\$	382,962
◆ 2027     ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(24,571)
• Incidatei	Φ	-	Ф	-

♦ Prior Proportionate Share         0.025291%           Beginning Net Pension Liability         \$ 842,013,303         \$ 212,955           Ending Net Pension Liability         \$ 1,028,277,936         \$ 268,510           Total Deferred Outflows of Resources:           • Differences Between Expected and Actual Experience         \$ -         \$ -           • Net Differences Between Projected and Actual Investment         69.393,646         18,120           Earnings on Pension Plan Investments         54,491,085         14,229           • Changes of Assumptions         54,491,085         14,229           • Contributions and Proportionate Share of Contributions         16,873,429         6,098           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 38,447           Total Deferred Inflows of Resources         \$ 14,67,935         \$ 8,217           • Changes of Assumptions	Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Blackstone Housing Authority		
Seginning Net Pension Liability	◆ Current Proportionate Share				0.026113%	
Ending Net Pension Liability \$ 1,028,277,936 \$ 268,510  Total Deferred Outflows of Resources:	◆ Prior Proportionate Share				0.025291%	
Total Deferred Outflows of Resources:  • Differences Between Expected and Actual Experience \$	Beginning Net Pension Liability	\$	842,013,303	\$	212,955	
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> <li>♦ Changes of Assumptions</li> <li>♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Outflows of Resources</li> <li>♦ Differences Between Expected and Actual Experience</li> <li>♦ Differences Between Expected and Actual Experience</li> <li>♦ Changes of Assumptions</li> <li>♦ Changes of Assumptions</li> <li>♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Inflows of Resources</li> <li>♦ Proportionate Share of Contributions</li> <li>Total Deferred Inflows of Resources</li> <li>\$ 48,341,364</li> <li>\$ 40,780</li> <li>Employer Pension Expense:</li> <li>♦ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions</li> <li>Total Employer Pension Expense Employer Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 29,026</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 22,360</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 41,190</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 6.25%</li> <li>\$ 1,028,277,936</li> <li>\$ 268,510</li> <li>\$ 327,655</li> <li>\$ 1% decrease in the discount rate: 8.25%</li> <li>\$ 36,788,149</li> <li>\$ 218,507</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:&lt;</li></ul>	Ending Net Pension Liability	\$	1,028,277,936	\$	268,510	
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Outflows of Resources</li> <li>Differences Between Expected and Actual Experience</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Inflows of Resources</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>111,155,119</li> <li>22,360</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>111,155,119</li> <li>22,360</li> <li>Covered Payroll:</li> <li>341,237,099</li> <li>41,190</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>Current discount rate: 7.25%</li> <li>1,028,277,936</li> <li>268,510</li> <li>1% decrease in the discount rate: 8.25%</li> <li>836,788,149</li> <li>218,507</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>2023</li> <li>7,993,114</li> <li>(8,944</li> </ul>	Total Deferred Outflows of Resources:					
Earnings on Pension Plan Investments  Changes of Assumptions Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Outflows of Resources  Differences Between Expected and Actual Experience  Differences Between Expected and Actual Experience Changes of Assumptions Changes in Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Inflows of Resources  Proportionate Share of Plan Pension Expense Proportion and Differences Between Employer Contributions  Total Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense:  Total Employer Pension Expense  Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense  \$ 111,155,119 \$ 29,026  Covered Payroll:  \$ 341,237,099 \$ 41,190  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  Current discount rate: 7.25% \$ 1,028,277,936 \$ 268,510  \$ 1,8 decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 327,655  \$ 1,6 increase in the discount rate: 8.25% \$ 836,788,149 \$ 218,507  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  2023 \$ 7,993,114 \$ (8,944)	♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Outflows of Resources</li> <li>◆ Differences Between Expected and Actual Experience</li> <li>♦ Differences Between Expected and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Inflows of Resources</li> <li>♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Inflows of Resources</li> <li>♦ 48,341,364</li> <li>\$ 40,780</li> <li>Employer Pension Expense:</li> <li>♦ Proportionate Share of Plan Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 29,026</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 22,360</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 41,190</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>\$ 1,028,277,936</li> <li>\$ 268,510</li> <li>• 1% decrease in the discount rate: 8.25%</li> <li>\$ 36,788,149</li> <li>\$ 218,507</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>• 2023</li> <li>• 7,993,114</li> <li>* (8,944</li> </ul>			69,393,646		18,120	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions       16,873,429       6,098         Total Deferred Outflows of Resources       \$ 140,758,160       \$ 38,447         Total Deferred Inflows of Resources:       ♦ Differences Between Expected and Actual Experience       \$ 31,467,935       \$ 8,217         ♦ Changes of Assumptions       -        -       -       -       -       -       -       -       -       -       -       -       -       -       -       -        -       -       -       -       -       -       -       - </td <td>♦ Changes of Assumptions</td> <td></td> <td>54,491,085</td> <td></td> <td>14,229</td>	♦ Changes of Assumptions		54,491,085		14,229	
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ 31,467,935 \$ 8,217  ◆ Changes of Assumptions	◆ Changes in Proportion and Differences Between Employer		16,873,429		6,098	
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>♦ Changes of Assumptions</li> <li>♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Inflows of Resources</li> <li>♣ 48,341,364</li> <li>♣ 40,780</li> <li>Employer Pension Expense:</li> <li>♦ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>♣ 111,155,119</li> <li>♣ 22,360</li> <li>Covered Payroll:</li> <li>♣ 341,237,099</li> <li>♣ 41,190</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♠ 1,028,277,936</li> <li>♠ 268,510</li> <li>♠ 1% decrease in the discount rate: 6.25%</li> <li>♠ 1,254,776,125</li> <li>♠ 327,655</li> <li>♠ 1% increase in the discount rate: 8.25%</li> <li>♠ 836,788,149</li> <li>♠ 218,507</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♠ 2023</li> <li>♠ 7,993,114</li> <li>♠ (8,944)</li> </ul>	Total Deferred Outflows of Resources	\$	140,758,160	\$	38,447	
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Inflows of Resources</li> <li>♣ 48,341,364</li> <li>♣ 40,780</li> <li>Employer Pension Expense:</li> <li>♦ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>♣ 111,155,119</li> <li>♣ 22,360</li> <li>Covered Payroll:</li> <li>♣ 341,237,099</li> <li>♣ 41,190</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♠ 1,028,277,936</li> <li>♠ 268,510</li> <li>♠ 1% decrease in the discount rate: 6.25%</li> <li>♠ 1,254,776,125</li> <li>♠ 327,655</li> <li>♠ 1% increase in the discount rate: 8.25%</li> <li>♠ 836,788,149</li> <li>♠ 218,507</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♠ 2023</li> <li>♠ 7,993,114</li> <li>♠ (8,944)</li> </ul>	Total Deferred Inflows of Resources:					
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions16,873,42932,563Total Deferred Inflows of Resources\$ 48,341,364\$ 40,780Employer Pension Expense: ♦ Proportionate Share of Plan Pension Expense\$ 111,155,119\$ 29,026♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions- (6,666Total Employer Pension Expense\$ 111,155,119\$ 22,360Covered Payroll:\$ 341,237,099\$ 41,190Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ♦ Current discount rate: 7.25%\$ 1,028,277,936\$ 268,510♦ 1% decrease in the discount rate: 6.25%\$ 1,254,776,125\$ 327,655♦ 1% increase in the discount rate: 8.25%\$ 836,788,149\$ 218,507Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2023\$ 7,993,114\$ (8,944)	♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	8,217	
Total Deferred Inflows of Resources  \$ 48,341,364 \$ 40,780  Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 29,026  ◆ Net Amortization of Deferred Amounts from Changes in - (6,666)  Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 22,360  Covered Payroll: \$ 341,237,099 \$ 41,190  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 268,510  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 327,655  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 218,507  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ (8,944)	♦ Changes of Assumptions		-		-	
Employer Pension Expense:  Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 29,026  Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 22,360  Covered Payroll: \$ 341,237,099 \$ 41,190  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  Current discount rate: 7.25% \$ 1,028,277,936 \$ 268,510  1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 327,655  1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 218,507  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  2023 \$ 7,993,114 \$ (8,944)			16,873,429		32,563	
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 22,360</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 41,190</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 268,510</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 327,655</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 218,507</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ (8,944)</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	40,780	
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>★ 111,155,119</li> <li>★ 22,360</li> <li>Covered Payroll:</li> <li>★ 341,237,099</li> <li>★ 41,190</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>◆ Current discount rate: 7.25%</li> <li>★ 1,028,277,936</li> <li>★ 268,510</li> <li>♠ 1% decrease in the discount rate: 6.25%</li> <li>♠ 1,254,776,125</li> <li>♠ 327,655</li> <li>♠ 1% increase in the discount rate: 8.25%</li> <li>★ 836,788,149</li> <li>★ 218,507</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♠ 2023</li> <li>★ 7,993,114</li> <li>★ (8,944)</li> </ul>	Employer Pension Expense:				_	
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense  \$ 111,155,119  \$ 22,360  Covered Payroll:  \$ 341,237,099  \$ 41,190  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  • Current discount rate: 7.25%  \$ 1,028,277,936  \$ 268,510  • 1% decrease in the discount rate: 6.25%  \$ 1,254,776,125  \$ 327,655  • 1% increase in the discount rate: 8.25%  \$ 836,788,149  \$ 218,507  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  • 2023  \$ 7,993,114  \$ (8,944)		\$	111,155,119	\$	29,026	
Covered Payroll: \$ 341,237,099 \$ 41,190  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  Current discount rate: 7.25% \$ 1,028,277,936 \$ 268,510  1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 327,655  1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 218,507  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  2023 \$ 7,993,114 \$ (8,944)	Proportion and Differences Between Employer Contributions		-		(6,666)	
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 268,510  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 327,655  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 218,507  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ (8,944)	Total Employer Pension Expense	\$	111,155,119	\$	22,360	
<ul> <li>◆ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>\$ 268,510</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 327,655</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 218,507</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ (8,944)</li> </ul>	Covered Payroll:	\$	341,237,099	\$	41,190	
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 327,655</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 218,507</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ (8,944)</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:			
<ul> <li>◆ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 218,507</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>◆ 2023</li> <li>\$ 7,993,114</li> <li>\$ (8,944)</li> </ul>	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	268,510	
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ (8,944)					327,655	
◆ 2023 \$ 7,993,114 \$ (8,944)	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	218,507	
	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensior	Expense:	
◆ 2024 \$ 20,165,452 \$ (4,178				\$	(8,944)	
·					(4,178)	
					2,097	
					8,570 122	
♦ 2027 \$ (2,258,546) \$ 122 ♦ Thereafter \$ - \$			(2,238,346)		122	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Blackstone-Millville Regional		
◆ Current Proportionate Share				0.825669%	
♦ Prior Proportionate Share				0.825057%	
Beginning Net Pension Liability	\$	842,013,303	\$	6,947,093	
Ending Net Pension Liability	\$	1,028,277,936	\$	8,490,169	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		572,962	
♦ Changes of Assumptions		54,491,085		449,916	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		5,775	
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,028,653	
Total Deferred Inflows of Resources:					
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	259,821	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		273,737	
Total Deferred Inflows of Resources	\$	48,341,364	\$	533,558	
Employer Pension Expense:					
♦ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	917,773	
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(118,947)	
Total Employer Pension Expense	\$	111,155,119	\$	798,826	
Covered Payroll:	\$	341,237,099	\$	3,047,067	
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	8,490,169	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	10,360,294	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	6,909,098	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:	
<b>♦</b> 2023	\$	7,993,114	\$	(17,653)	
◆ 2024	\$	20,165,452	\$	87,204	
♦ 2025	\$	24,228,135	\$	138,286	
♦ 2026	\$	42,288,641	\$	305,376	
◆ 2027	\$	(2,258,546)	\$	(18,118)	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Bolton
◆ Current Proportionate Share				0.810588%
◆ Prior Proportionate Share				0.814501%
Beginning Net Pension Liability	\$	842,013,303	\$	6,858,208
Ending Net Pension Liability	\$	1,028,277,936	\$	8,335,098
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		562,497
◆ Changes of Assumptions		54,491,085		441,698
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		332,963
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,337,158
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	255,075
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		37,350
Total Deferred Inflows of Resources	\$	48,341,364	\$	292,425
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	901,010
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		147,104
Total Employer Pension Expense	\$	111,155,119	\$	1,048,114
Covered Payroll:	\$	341,237,099	\$	2,756,129
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	8,335,098
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	10,171,066
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	6,782,905
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	169,376
◆ 2024	\$	20,165,452	\$	262,735
♦ 2025	\$	24,228,135	\$	252,544
♦ 2026 • 2027	\$	42,288,641	\$	381,782
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(21,704)
▼ Increater	Ψ	-	Ψ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Boylston
◆ Current Proportionate Share				0.948056%
◆ Prior Proportionate Share				0.953868%
Beginning Net Pension Liability	\$	842,013,303	\$	8,031,694
Ending Net Pension Liability	\$	1,028,277,936	\$	9,748,647
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		657,890
♦ Changes of Assumptions		54,491,085		516,606
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		-
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,174,496
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Changes of Assumptions	\$	31,467,935	\$	298,334 -
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		810,793
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,109,127
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	1,053,812 (93,541)
Total Employer Pension Expense	\$	111,155,119	\$	960,271
Covered Payroll:	\$	341,237,099	\$	3,616,888
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	9,748,647
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	11,895,976
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	7,933,217
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	(155,246)
♦ 2024	\$	20,165,452	\$	(26,941)
♦ 2025	\$	24,228,135	\$	18,292
♦ 2026	\$	42,288,641	\$	255,721
◆ 2027	\$	(2,258,546)	\$	(26,457)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Boylston Water District		
◆ Current Proportionate Share				0.020501%	
◆ Prior Proportionate Share				0.020001%	
Beginning Net Pension Liability	\$	842,013,303	\$	168,410	
Ending Net Pension Liability	\$	1,028,277,936	\$	210,804	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		14,226	
◆ Changes of Assumptions		54,491,085		11,171	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		7,928	
Total Deferred Outflows of Resources	\$	140,758,160	\$	33,325	
Total Deferred Inflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	6,451	
♦ Changes of Assumptions		-		-	
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		1,119	
Total Deferred Inflows of Resources	\$	48,341,364	\$	7,570	
Employer Pension Expense:					
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	22,788	
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		5,250	
Total Employer Pension Expense	\$	111,155,119	\$	28,038	
Covered Payroll:	\$	341,237,099	\$	71,935	
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	210,804	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	257,238	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	171,548	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensior	Expense:	
◆ 2023	\$	7,993,114	\$	4,462	
♦ 2024	\$	20,165,452	\$	6,420	
♦ 2025 - 2026	\$	24,228,135	\$	5,627	
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641	\$	9,274	
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(28)	
▼ Increate	Ψ	<del>-</del>	Ψ	-	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Brookfield
◆ Current Proportionate Share				0.490979%
◆ Prior Proportionate Share				0.492969%
Beginning Net Pension Liability	\$	842,013,303	\$	4,150,866
Ending Net Pension Liability	\$	1,028,277,936	\$	5,048,630
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		340,708
◆ Changes of Assumptions		54,491,085		267,540
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		147,948
Total Deferred Outflows of Resources	\$	140,758,160	\$	756,196
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	154,501
◆ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		64,550
Total Deferred Inflows of Resources	\$	48,341,364	\$	219,051
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	545,748
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		52,426
Total Employer Pension Expense	\$	111,155,119	\$	598,174
Covered Payroll:	\$	341,237,099	\$	1,858,889
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	5,048,630
◆ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	6,160,689
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	4,108,455
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	47,884
◆ 2024	\$	20,165,452	\$	114,584
♦ 2025	\$	24,228,135	\$	154,811
♦ 2026 • 2027	\$	42,288,641	\$	232,681
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(12,815)
▼ ITIGIGATO	Ψ	<del>-</del>	Ψ	-

Current Proportionate Share         2.324147%           Prior Proportionate Share         2.335348%           Beginning Net Pension Liability         \$ 842,013,303         \$ 19,648,787           Ending Net Pension Liability         \$ 1,028,277,936         \$ 23,898,689           Total Deferred Outflows of Resources:         • Differences Between Expected and Actual Experience         \$         • Net Differences Between Expected and Actual Experience         • 6,9393,646         1,612,810           Earnings on Pension Plan Investments         • Changes of Assumptions         54,491,085         1,266,453           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         1,023,032           Total Deferred Inflows of Resources         \$ 31,467,935         \$ 731,361           • Changes of Assumptions         •         •           • Changes of Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions         16,873,429         111,111           • Changes of Proportion and Differences Between Employer Contributions and Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,583,408           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions	Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Chariton
Enginning Net Pension Liability	◆ Current Proportionate Share				2.324147%
Ending Net Pension Liability	◆ Prior Proportionate Share				2.333548%
Total Deferred Outflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$           ♦ Net Differences Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         1,612,810           ♦ Changes of Assumptions         54,491,085         1,266,453           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         1,023,032           Total Deferred Outflows of Resources:         • Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 731,361           • Changes of Assumptions         • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         111,112           Employer Pension Expense:         • Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,583,408           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         388,417           Total Employer Pension Expense         \$ 111,155,119         \$ 2,971,825           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         341,237,099         \$ 6,766,038           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Curre	Beginning Net Pension Liability	\$	842,013,303	\$	19,648,787
◆ Net Differences Between Projected and Actual Experience         \$	Ending Net Pension Liability	\$	1,028,277,936	\$	23,898,689
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments         6.9,393,646         1,612,810           ◆ Changes of Assumptions         54,491,085         1,266,453           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         1,023,032           Total Deferred Outflows of Resources           ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 731,361           ♦ Changes of Assumptions	Total Deferred Outflows of Resources:				
Earnings on Pension Plan Investments         54,491,085         1,266,453           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         1,023,032           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 3,902,295           Total Deferred Inflows of Resources           ● Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 731,361           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         111,112           Employer Pension Expense:         \$ 48,341,364         842,473           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,583,408           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 2,971,825           Covered Payroll:         \$ 341,237,099         \$ 6,766,038           Sensitivity of the Net Pension Liability to Changes in the Discourt Rate:         • 1,028,277,936         \$ 23,898,689           • 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 23,898,689           • 1% decrease in the discount rate: 8.25%         \$ 36,788,149 <td>♦ Differences Between Expected and Actual Experience</td> <td>\$</td> <td>-</td> <td>\$</td> <td>-</td>	♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         1,023,032           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 3,902,295           Total Deferred Inflows of Resources:         ⇒ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 731,361           ◆ Changes of Assumptions			69,393,646		1,612,810
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         1,023,032           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 3,902,295           Total Deferred Inflows of Resources:         ⇒ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 731,361           ◆ Changes of Assumptions	◆ Changes of Assumptions		54,491,085		1,266,453
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ 31,467,935 \$ 731,361    ◆ Changes of Assumptions	◆ Changes in Proportion and Differences Between Employer		16,873,429		
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 731,361           ◆ Changes of Assumptions	Total Deferred Outflows of Resources	\$	140,758,160	\$	3,902,295
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         111,112           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 842,473           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,583,408           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - 388,417           Total Employer Pension Expense         \$ 111,155,119         \$ 2,971,825           Covered Payroll:         \$ 341,237,099         \$ 6,766,038           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate:         7.25%         \$ 1,028,277,936         \$ 23,898,689           ◆ 1% decrease in the discount rate:         6.25%         \$ 1,254,776,125         \$ 29,162,839           ◆ 1% increase in the discount rate:         8.25%         \$ 836,788,149         \$ 19,448,185           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ◆ 2023         \$ 7,993,114         \$ 518,603           ◆ 2024         \$ 20,165,452         \$ 780,684           ◆ 2025         \$ 42,228,135         \$ 723,130     <	Total Deferred Inflows of Resources:				
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         111,112           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 842,473           Employer Pension Expense:         Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,583,408           Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 2,971,825           Covered Payroll:         \$ 341,237,099         \$ 6,766,038           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 23,898,689           • 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 29,162,839           • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 19,448,185           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 518,603           • 2023         \$ 7,993,114         \$ 518,603         • 2024         \$ 20,165,452         \$ 780,684           • 2025         \$ 42,288,641         \$ 1,098,061         • 2026         \$ 42,288,641         \$ 1,098,061           • 2027         \$ 6,0656		\$	31,467,935	\$	731,361
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 2,583,408  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 2,971,825  Covered Payroll: \$ 341,237,099 \$ 6,766,038  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 23,898,689  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 29,162,839  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 19,448,185  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 518,603  ◆ 2024 \$ 20,165,452 \$ 780,684  ◆ 2025 \$ 24,228,135 \$ 723,130  ◆ 2026 \$ 42,288,641 \$ 1,098,061  ◆ 2027 \$ (2,258,546) \$ (60,656)	◆ Changes in Proportion and Differences Between Employer		16,873,429		111,112
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>★ 111,155,119</li> <li>★ 2,971,825</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 6,766,038</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 23,898,689</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 29,162,839</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 19,448,185</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ 780,684</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ 723,130</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♦ 1,098,061</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (60,656)</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	842,473
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>★ 111,155,119</li> <li>★ 2,971,825</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 6,766,038</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 23,898,689</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 29,162,839</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 19,448,185</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ 780,684</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ 723,130</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♦ 1,098,061</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (60,656)</li> </ul>	Employer Pension Expense:				
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$\frac{111,155,119}{341,237,099}\$		\$	111,155,119	\$	2,583,408
Covered Payroll:       \$ 341,237,099       \$ 6,766,038         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate:       7.25%       \$ 1,028,277,936       \$ 23,898,689         ♦ 1% decrease in the discount rate:       6.25%       \$ 1,254,776,125       \$ 29,162,839         ♦ 1% increase in the discount rate:       8.25%       \$ 836,788,149       \$ 19,448,185         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:       • 2023       \$ 7,993,114       \$ 518,603         • 2024       \$ 20,165,452       \$ 780,684         • 2025       \$ 24,228,135       \$ 723,130         • 2026       \$ 42,288,641       \$ 1,098,061         • 2027       \$ (2,258,546)       \$ (60,656)	Proportion and Differences Between Employer Contributions		-		388,417
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 23,898,689         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 29,162,839         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 19,448,185         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 518,603         ◆ 2024       \$ 20,165,452       \$ 780,684         ◆ 2025       \$ 24,228,135       \$ 723,130         ◆ 2026       \$ 42,288,641       \$ 1,098,061         ◆ 2027       \$ (2,258,546)       \$ (60,656)	Total Employer Pension Expense	\$	111,155,119	\$	2,971,825
♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 23,898,689         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 29,162,839         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 19,448,185         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 518,603         ♦ 2024       \$ 20,165,452       \$ 780,684         ♦ 2025       \$ 24,228,135       \$ 723,130         ♦ 2026       \$ 42,288,641       \$ 1,098,061         ♦ 2027       \$ (2,258,546)       \$ (60,656)	Covered Payroll:	\$	341,237,099	\$	6,766,038
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 29,162,839</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 19,448,185</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 518,603</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 780,684</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 723,130</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 1,098,061</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (60,656)</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 19,448,185</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 518,603</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 780,684</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 723,130</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 1,098,061</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (60,656)</li> </ul>	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	23,898,689
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 518,603         ♦ 2024       \$ 20,165,452       \$ 780,684         ♦ 2025       \$ 24,228,135       \$ 723,130         ♦ 2026       \$ 42,288,641       \$ 1,098,061         ♦ 2027       \$ (2,258,546)       \$ (60,656)				\$	
♦ 2023       \$ 7,993,114       \$ 518,603         ♦ 2024       \$ 20,165,452       \$ 780,684         ♦ 2025       \$ 24,228,135       \$ 723,130         ♦ 2026       \$ 42,288,641       \$ 1,098,061         ♦ 2027       \$ (2,258,546)       \$ (60,656)	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	19,448,185
♦ 2024       \$ 20,165,452       \$ 780,684         ♦ 2025       \$ 24,228,135       \$ 723,130         ♦ 2026       \$ 42,288,641       \$ 1,098,061         ♦ 2027       \$ (2,258,546)       \$ (60,656)	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
♦ 2025       \$ 24,228,135       \$ 723,130         ♦ 2026       \$ 42,288,641       \$ 1,098,061         ♦ 2027       \$ (2,258,546)       \$ (60,656)		\$		\$	518,603
♦ 2026       \$ 42,288,641       \$ 1,098,061         ♦ 2027       \$ (2,258,546)       \$ (60,656)					
<b>♦</b> 2027 \$ (2,258,546) \$ (60,656)					
• Incremen	◆ 2027 ◆ Thereafter	\$	(2,230,340)	\$	(60,636)

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Cherry Valley- Rochdale Water		
◆ Current Proportionate Share				0.090103%	
◆ Prior Proportionate Share				0.088354%	
Beginning Net Pension Liability	\$	842,013,303	\$	743,955	
Ending Net Pension Liability	\$	1,028,277,936	\$	926,507	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		62,526	
◆ Changes of Assumptions		54,491,085		49,098	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		39,312	
Total Deferred Outflows of Resources	\$	140,758,160	\$	150,936	
Total Deferred Inflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	28,353	
♦ Changes of Assumptions		-		-	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		13,447	
Total Deferred Inflows of Resources	\$	48,341,364	\$	41,800	
Employer Pension Expense:					
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	100,154	
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		11,272	
Total Employer Pension Expense	\$	111,155,119	\$	111,426	
Covered Payroll:	\$	341,237,099	\$	345,769	
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	926,507	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	1,130,588	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	753,969	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensior	n Expense:	
◆ 2023	\$	7,993,114	\$	20,347	
♦ 2024	\$	20,165,452	\$	27,431	
♦ 2025	\$	24,228,135	\$	23,480	
♦ 2026 • 2027	\$	42,288,641	\$	38,395	
• 2027	\$	(2,258,546)	\$	(517)	
◆ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2022	Wo	rcester Regional Retirement System	Cherry Valley Sewe		
◆ Current Proportionate Share				0.000000%	
◆ Prior Proportionate Share				0.000000%	
Beginning Net Pension Liability	\$	842,013,303	\$	-	
Ending Net Pension Liability	\$	1,028,277,936	\$	-	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		-	
♦ Changes of Assumptions		54,491,085		-	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		148	
Total Deferred Outflows of Resources	\$	140,758,160	\$	148	
Total Deferred Inflows of Resources:					
<ul><li>◆ Differences Between Expected and Actual Experience</li><li>◆ Changes of Assumptions</li></ul>	\$	31,467,935 -	\$	- -	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		8,097	
Total Deferred Inflows of Resources	\$	48,341,364	\$	8,097	
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119	\$	- (1,129)	
Total Employer Pension Expense	\$	111,155,119	\$	(1,129)	
Covered Payroll:	\$	341,237,099	\$	-	
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	-	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	-	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	-	
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pension	Expense:	
<b>♦</b> 2023	\$	7,993,114	\$	(4,253)	
♦ 2024	\$	20,165,452	\$	(3,696)	
♦ 2025	\$	24,228,135	\$	-	
♦ 2026	\$	42,288,641	\$	-	
♦ 2027 The configuration	\$	(2,258,546)	\$	-	
◆ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Douglas
◆ Current Proportionate Share				1.716973%
◆ Prior Proportionate Share				1.727054%
Beginning Net Pension Liability	\$	842,013,303	\$	14,542,025
Ending Net Pension Liability	\$	1,028,277,936	\$	17,655,257
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		1,191,470
◆ Changes of Assumptions		54,491,085		935,597
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		-
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,127,067
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	540,296
◆ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		432,234
Total Deferred Inflows of Resources	\$	48,341,364	\$	972,530
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	1,908,504 8,696
Total Employer Pension Expense	\$	111,155,119	\$	1,917,200
Covered Payroll:	\$	341,237,099	\$	6,900,219
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	17,655,257
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	21,544,170
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	14,367,428
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	2,917
♦ 2024	\$	20,165,452	\$	228,969
◆ 2025 • 2026	\$	24,228,135	\$	311,587
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641 (2,258,546)	\$	658,598 (47,534)
◆ 2027 ◆ Thereafter	\$	(2,200,040)	\$ \$	(47,334)
₹ moreared	Ψ		Ψ	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Dudley
◆ Current Proportionate Share				1.473046%
◆ Prior Proportionate Share				1.475885%
Beginning Net Pension Liability	\$	842,013,303	\$	12,427,148
Ending Net Pension Liability	\$	1,028,277,936	\$	15,147,003
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		1,022,200
◆ Changes of Assumptions		54,491,085		802,679
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		327,954
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,152,833
Total Deferred Inflows of Resources:				
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	463,537
<ul> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		96,149
Total Deferred Inflows of Resources	\$	48,341,364	\$	559,686
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions	\$	111,155,119 -	\$	1,637,366 (18,731)
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	111,155,119	\$	1,618,635
Covered Payroll:	\$	341,237,099	\$	4,129,721
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	15,147,003
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	18,483,424
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	12,326,271
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	163,575
◆ 2024	\$	20,165,452	\$	351,884
◆ 2025	\$	24,228,135	\$	432,378
♦ 2026	\$	42,288,641	\$	681,041
♦ 2027	\$	(2,258,546)	\$	(35,731)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	rcester Regional Retirement System		Dudley Housing Authority	
♦ Current Proportionate Share				0.030716%	
◆ Prior Proportionate Share				0.030465%	
Beginning Net Pension Liability	\$	842,013,303	\$	256,521	
Ending Net Pension Liability	\$	1,028,277,936	\$	315,846	
Total Deferred Outflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	-	\$	-	
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		21,315	
◆ Changes of Assumptions		54,491,085		16,737	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		31,372	
Total Deferred Outflows of Resources	\$	140,758,160	\$	69,424	
Total Deferred Inflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	9,666	
◆ Changes of Assumptions	•	-		-	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		-	
Total Deferred Inflows of Resources	\$	48,341,364	\$	9,666	
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	34,142 (11,419)	
Total Employer Pension Expense	\$	111,155,119	\$	22,723	
Covered Payroll:	\$	341,237,099	\$	127,470	
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	315,846	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	385,417	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	257,028	
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pension	Expense:	
♦ 2023	\$	7,993,114	\$	12,761	
<b>♦</b> 2024	\$	20,165,452	\$	14,674	
◆ 2025	\$	24,228,135	\$	14,840	
◆ 2026	\$	42,288,641	\$	17,957	
♦ 2027	\$	(2,258,546)	\$	(474)	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2022	Worcester Regional Retirement System			Dudley-Charlton Regional		
◆ Current Proportionate Share				1.662828%		
◆ Prior Proportionate Share				1.662739%		
Beginning Net Pension Liability	\$	842,013,303	\$	14,000,481		
Ending Net Pension Liability	\$	1,028,277,936	\$	17,098,495		
Total Deferred Outflows of Resources:						
♦ Differences Between Expected and Actual Experience	\$	-	\$	-		
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		1,153,897		
◆ Changes of Assumptions		54,491,085		906,093		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		35,684		
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,095,674		
Total Deferred Inflows of Resources:						
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	523,258		
<ul> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		110,192		
Total Deferred Inflows of Resources	\$	48,341,364	\$	633,450		
Employer Pension Expense:						
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,848,319		
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		4,461		
Total Employer Pension Expense	\$	111,155,119	\$	1,852,780		
Covered Payroll:	\$	341,237,099	\$	6,110,020		
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rat	e:				
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	17,098,495		
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	20,864,771		
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	13,914,349		
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:		
◆ 2023	\$	7,993,114	\$	118,776		
◆ 2024	\$	20,165,452	\$	322,213		
♦ 2025	\$	24,228,135	\$	374,464		
♦ 2026	\$	42,288,641	\$	684,247		
♦ 2027 • Thereafter	\$	(2,258,546)	\$	(37,476)		
◆ Thereafter	\$	-	\$	-		

	Wo	orcester Regional		
Poncian Amounts as of Docombor 21, 2022		Retirement System	Eo	st Brookfield
Pension Amounts as of December 31, 2022		System	Ed	0.249854%
<ul><li>◆ Current Proportionate Share</li><li>◆ Prior Proportionate Share</li></ul>				0.249854%
Beginning Net Pension Liability	\$	842,013,303	\$	2,112,167
beginning Net Pension Liability	Ψ		Ψ	
Ending Net Pension Liability	\$	1,028,277,936	\$	2,569,197
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		173,383
◆ Changes of Assumptions		54,491,085		136,148
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		16,332
Total Deferred Outflows of Resources	\$	140,758,160	\$	325,863
Total Deferred Inflows of Resources:	-			
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	78,624
◆ Changes of Assumptions	·	-	•	-
◆ Changes in Proportion and Differences Between Employer		16,873,429		24,438
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	48,341,364	\$	103,062
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	277,726
♦ Net Amortization of Deferred Amounts from Changes in		-		50,668
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	111,155,119	\$	328,394
Covered Payroll:	\$	341,237,099	\$	975,083
Sensitivity of the Net Pension Liability to Changes in the Discou			Ψ	373,003
◆ Current discount rate: 7.25%	siit Kat	1,028,277,936	\$	2,569,197
◆ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	3,135,113
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	2,090,752
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	18,780
<b>♦</b> 2024	\$	20,165,452	\$	51,680
♦ 2025	\$	24,228,135	\$	55,435
♦ 2026	\$	42,288,641	\$	103,409
◆ 2027 ◆ Thereafter	\$	(2,258,546)	\$	(6,503)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Grafton
◆ Current Proportionate Share				3.171855%
◆ Prior Proportionate Share				3.175273%
Beginning Net Pension Liability	\$	842,013,303	\$	26,736,222
Ending Net Pension Liability	\$	1,028,277,936	\$	32,615,484
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		2,201,066
◆ Changes of Assumptions		54,491,085		1,728,378
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		720,631
Total Deferred Outflows of Resources	\$	140,758,160	\$	4,650,075
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	998,117
◆ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		37,874
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,035,991
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	3,525,679
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		-		273,633
Total Employer Pension Expense	\$	111,155,119	\$	3,799,312
Covered Payroll:	\$	341,237,099	\$	12,786,214
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	32,615,484
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	39,799,677
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	26,541,705
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
<b>◆</b> 2023	\$	7,993,114	\$	485,658
<ul><li>◆ 2024</li></ul>	\$	20,165,452	\$	859,705
◆ 2025 • 2026	\$	24,228,135	\$	905,065
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641 (2,258,546)	\$ \$	1,438,260 (74,604)
◆ 2027 ◆ Thereafter	\$	(2,230,340)	\$	(14,004)

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Gra	Grafton Housing Authority	
◆ Current Proportionate Share				0.076090%	
◆ Prior Proportionate Share				0.075463%	
Beginning Net Pension Liability	\$	842,013,303	\$	635,405	
Ending Net Pension Liability	\$	1,028,277,936	\$	782,413	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		52,801	
◆ Changes of Assumptions		54,491,085		41,462	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		8,716	
Total Deferred Outflows of Resources	\$	140,758,160	\$	102,979	
Total Deferred Inflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	23,944	
♦ Changes of Assumptions		-		-	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		72,414	
Total Deferred Inflows of Resources	\$	48,341,364	\$	96,358	
Employer Pension Expense:					
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	84,578	
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(25,927)	
Total Employer Pension Expense	\$	111,155,119	\$	58,651	
Covered Payroll:	\$	341,237,099	\$	236,422	
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	782,413	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	954,755	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	636,709	
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensior	Expense:	
<ul><li>◆ 2023</li></ul>	\$	7,993,114	\$	(16,547)	
♦ 2024	\$	20,165,452	\$	(4,606)	
♦ 2025	\$	24,228,135	\$	6,034	
♦ 2026 • 2027	\$	42,288,641	\$	22,915	
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(1,175)	
▼ Increater	Ψ	<del>-</del>	Ψ	-	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Hardwick
◆ Current Proportionate Share				0.295182%
◆ Prior Proportionate Share				0.295229%
Beginning Net Pension Liability	\$	842,013,303	\$	2,485,869
Ending Net Pension Liability	\$	1,028,277,936	\$	3,035,296
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		204,838
◆ Changes of Assumptions		54,491,085		160,848
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		4,518
Total Deferred Outflows of Resources	\$	140,758,160	\$	370,204
Total Deferred Inflows of Resources:				
Differences Between Expected and Actual Experience     Changes of Assumptions	\$	31,467,935	\$	92,888
<ul> <li>◆ Changes of Assumptions</li> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		189,643
Total Deferred Inflows of Resources	\$	48,341,364	\$	282,531
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	328,110
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(126,755)
Total Employer Pension Expense	\$	111,155,119	\$	201,355
Covered Payroll:	\$	341,237,099	\$	1,096,184
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	3,035,296
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	3,703,879
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	2,470,052
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<ul><li>◆ 2023</li></ul>	\$	7,993,114	\$	(47,945)
♦ 2024	\$	20,165,452	\$	(5,484)
♦ 2025	\$	24,228,135	\$	43,573
♦ 2026 • 2027	\$	42,288,641	\$	104,239
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(6,710)
▼ Increater	φ	-	φ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Harvard
◆ Current Proportionate Share				1.526790%
◆ Prior Proportionate Share				1.525881%
Beginning Net Pension Liability	\$	842,013,303	\$	12,848,117
Ending Net Pension Liability	\$	1,028,277,936	\$	15,699,642
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		1,059,495
◆ Changes of Assumptions		54,491,085		831,964
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		269,947
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,161,406
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	480,449
◆ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		58,933
Total Deferred Inflows of Resources	\$	48,341,364	\$	539,382
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,697,105
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		26,843
Total Employer Pension Expense	\$	111,155,119	\$	1,723,948
Covered Payroll:	\$	341,237,099	\$	5,653,864
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	15,699,642
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	19,157,793
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	12,775,995
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	171,496
◆ 2024	\$	20,165,452	\$	355,300
♦ 2025 - 2026	\$	24,228,135	\$	440,125
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641 (2,258,546)	\$	688,802
◆ 2027 ◆ Thereafter	\$ \$	(2,230,340)	\$ \$	(33,699)
₹ morearcor	Ψ		Ψ	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Hill	Hillcrest Water District		
◆ Current Proportionate Share				0.013949%		
♦ Prior Proportionate Share				0.013537%		
Beginning Net Pension Liability	\$	842,013,303	\$	113,982		
Ending Net Pension Liability	\$	1,028,277,936	\$	143,436		
Total Deferred Outflows of Resources:						
♦ Differences Between Expected and Actual Experience	\$	-	\$	-		
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		9,680		
♦ Changes of Assumptions		54,491,085		7,601		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		48,041		
Total Deferred Outflows of Resources	\$	140,758,160	\$	65,322		
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Changes of Assumptions	\$	31,467,935 -	\$	4,390		
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		29,851		
Total Deferred Inflows of Resources	\$	48,341,364	\$	34,241		
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	15,505 (2,358)		
Total Employer Pension Expense	\$	111,155,119	\$	13,147		
Covered Payroll:	\$	341,237,099	\$	-		
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rat	e:				
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	143,436		
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	175,031		
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	116,725		
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pension	Expense:		
<b>♦</b> 2023	\$	7,993,114	\$	3,243		
◆ 2024	\$	20,165,452	\$	4,461		
♦ 2025	\$	24,228,135	\$	8,245		
♦ 2026	\$	42,288,641	\$	15,089		
♦ 2027	\$	(2,258,546)	\$	43		
◆ Thereafter	\$	-	\$	-		

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Holden
◆ Current Proportionate Share				3.655894%
◆ Prior Proportionate Share				3.639028%
Beginning Net Pension Liability	\$	842,013,303	\$	30,641,099
Ending Net Pension Liability	\$	1,028,277,936	\$	37,592,749
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		2,536,958
◆ Changes of Assumptions		54,491,085		1,992,136
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		737,669
Total Deferred Outflows of Resources	\$	140,758,160	\$	5,266,763
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	1,150,434
◆ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		509,999
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,660,433
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	4,063,713 (215,672)
Total Employer Pension Expense	\$	111,155,119	\$	3,848,041
Covered Payroll:	\$	341,237,099	\$	11,333,737
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	37,592,749
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	45,873,283
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	30,592,086
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	230,358
◆ 2024	\$	20,165,452	\$	702,401
♦ 2025	\$	24,228,135	\$	1,073,059
♦ 2026	\$	42,288,641	\$	1,668,438
♦ 2027	\$	(2,258,546)	\$	(67,926)
◆ Thereafter	\$	-	\$	-

• Current Proportionate Share         0.032482%           • Prior Proportionate Share         0.031461%           Beginning Net Pension Liability         \$ 842,013,303         \$ 264,902           Ending Net Pension Liability         \$ 0.08,277,936         \$ 334,006           Total Deferred Outflows of Resources:           • Differences Between Expected and Actual Experience         \$ 0.93,864         22,541           • Earnings on Pension Plan Investments         54,491,085         17,700           • Changes of Assumptions         16,873,429         14,853           • Changes on Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 140,758,160         \$ 55,094           Total Deferred Inflows of Resources         \$ 31,467,935         \$ 10,221           • Changes of Assumptions         \$ 31,467,935         \$ 10,221           • Changes in Proportion and Differences Between Employer         16,873,429         135,854           • Changes of Assumptions         \$ 31,467,935         \$ 10,221           • Changes in Proportion and Differences Between Employer         \$ 16,873,429         \$ 135,854           • Changes in Proportion and Differences Between Employer         \$ 16,873,429         \$ 136,875           • Total Deferred Inflows of Resources         \$ 111,155,119         \$ 36,005 </th <th>Pension Amounts as of December 31, 2022</th> <th>Wo</th> <th>orcester Regional Retirement System</th> <th></th> <th colspan="2">Holden Housing Authority</th>	Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Holden Housing Authority	
Reginning Net Pension Liability	◆ Current Proportionate Share				0.032482%	
Ending Net Pension Liability	◆ Prior Proportionate Share				0.031461%	
Total Deferred Outflows of Resources:	Beginning Net Pension Liability	\$	842,013,303	\$	264,902	
◆ Differences Between Expected and Actual Experience         \$	Ending Net Pension Liability	\$	1,028,277,936	\$	334,006	
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         22,541           € Changes of Assumptions         54,491,085         17,700           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         14,853           Total Deferred Outflows of Resources           ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 10,221           ♦ Changes of Assumptions         • • • • • • • • • • • • • • • • • • •	Total Deferred Outflows of Resources:					
Earnings on Pension Plan Investments         54,491,085         17,700           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         14,853           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 55,094           Total Deferred Inflows of Resources           ● Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 10,221           ◆ Changes of Assumptions	♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         14,853           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 55,094           Total Deferred Inflows of Resources:           ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 10,221           ♦ Changes of Assumptions         -         -         -           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 48,341,364         \$ 146,075           Employer Pension Expense:         \$ 111,155,119         \$ 36,106           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 36,106           Total Employer Pension Expense         \$ 111,155,119         \$ 1,966           Covered Payroll:         \$ 341,237,099         -           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         4 1,008,277,936         \$ 334,006           • 1% decrease in the discount rate: 6.25%         \$ 1,028,277,936         \$ 334,006           • 1% increase in the discount rate: 8.25%         \$ 1,028,277,936         \$ 34,006           • 1% increase in the discount rate: 8.25%         \$ 1,254,776,125         \$ 407,578<			69,393,646		22,541	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         14,853           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 55,094           Total Deferred Inflows of Resources:           ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 10,221           ♦ Changes of Assumptions         -         -         -           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 48,341,364         \$ 146,075           Employer Pension Expense:         \$ 111,155,119         \$ 36,106           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 36,106           Total Employer Pension Expense         \$ 111,155,119         \$ 1,966           Covered Payroll:         \$ 341,237,099         -           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         4 1,008,277,936         \$ 334,006           • 1% decrease in the discount rate: 6.25%         \$ 1,028,277,936         \$ 334,006           • 1% increase in the discount rate: 8.25%         \$ 1,028,277,936         \$ 34,006           • 1% increase in the discount rate: 8.25%         \$ 1,254,776,125         \$ 407,578<	◆ Changes of Assumptions		54,491,085		17,700	
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ 31,467,935 \$ 10,221  ◆ Changes of Assumptions	◆ Changes in Proportion and Differences Between Employer		16,873,429			
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 10,221           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         135,854           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 146,075           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 36,106           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         (34,140)           Total Employer Pension Expense         \$ 111,155,119         \$ 1,966           Covered Payroll:         \$ 341,237,099         \$ -           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         •         •           • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 334,006           • 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 407,578           • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 271,806           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ (29,238)	Total Deferred Outflows of Resources	\$	140,758,160	\$	55,094	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         135,854           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 146,075           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 36,106           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - (34,140)           Total Employer Pension Expense         \$ 111,155,119         \$ 1,966           Covered Payroll:         \$ 341,237,099         \$ -           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate:         7.25%         \$ 1,028,277,936         \$ 334,006           ◆ 1% decrease in the discount rate:         6.25%         \$ 1,254,776,125         \$ 407,578           ◆ 1% increase in the discount rate:         8.25%         8 336,788,149         \$ 271,806           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ◆ 2023         \$ 7,993,114         \$ (29,238)           ◆ 2024         \$ 20,165,452         \$ (25,105)           ◆ 2025         \$ 24,228,135         \$ (26,837)	Total Deferred Inflows of Resources:					
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         135,854           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 146,075           Employer Pension Expense:         ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 36,106           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,966           Covered Payroll:         \$ 341,237,099         \$ -           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ 1,028,277,936         \$ 334,006           ♦ 1% decrease in the discount rate: 7.25%         \$ 1,028,277,936         \$ 334,006           ♦ 1% increase in the discount rate: 8.25%         \$ 1,028,277,936         \$ 334,006           ♦ 1% increase in the discount rate: 8.25%         \$ 1,028,277,936         \$ 334,006           ♦ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 271,806           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         \$ 2023         \$ 7,993,114         \$ (29,238)           ♦ 2024         \$ 20,165,452         \$ (25,105)         \$ (25,105)           ♦ 2025         \$ 42,288,641         \$ (9,954)         \$ (29,258		\$	31,467,935 -	\$	10,221	
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 36,106  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 1,966  Covered Payroll: \$ 341,237,099 \$ -  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 334,006  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 407,578  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 271,806  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ (29,238)  ◆ 2024 \$ 20,165,452 \$ (25,105)  ◆ 2025 \$ 24,228,135 \$ (26,837)  ◆ 2026 \$ 42,288,641 \$ (9,954)  ◆ 2027 \$ (2,258,546) \$ 153	◆ Changes in Proportion and Differences Between Employer		16,873,429		135,854	
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 1,966</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ -</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 334,006</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 407,578</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 271,806</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ (29,238)</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ (25,105)</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ (26,837)</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♦ (9,954)</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ 153</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	146,075	
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 1,966</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ -</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 334,006</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 407,578</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 271,806</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ (29,238)</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ (25,105)</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ (26,837)</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♦ (9,954)</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ 153</li> </ul>	Employer Pension Expense:					
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$\frac{111,155,119}{341,237,099}\$		\$	111,155,119	\$	36,106	
Covered Payroll: \$ 341,237,099 \$ -  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 334,006  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 407,578  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 271,806  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ (29,238)  ◆ 2024 \$ 20,165,452 \$ (25,105)  ◆ 2025 \$ 24,228,135 \$ (26,837)  ◆ 2026 \$ 42,288,641 \$ (9,954)  ◆ 2027 \$ (2,258,546) \$ 153	Proportion and Differences Between Employer Contributions		-		(34,140)	
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 334,006         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 407,578         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 271,806         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ (29,238)         ♦ 2024       \$ 20,165,452       \$ (25,105)         ♦ 2025       \$ 24,228,135       \$ (26,837)         ♦ 2026       \$ 42,288,641       \$ (9,954)         ♦ 2027       \$ (2,258,546)       \$ 153	Total Employer Pension Expense	\$	111,155,119	\$	1,966	
♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 334,006         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 407,578         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 271,806         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ (29,238)         ♦ 2024       \$ 20,165,452       \$ (25,105)         ♦ 2025       \$ 24,228,135       \$ (26,837)         ♦ 2026       \$ 42,288,641       \$ (9,954)         ♦ 2027       \$ (2,258,546)       \$ 153	Covered Payroll:	\$	341,237,099	\$	-	
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>\$ 407,578</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 271,806</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ (29,238)</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ (25,105)</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ (26,837)</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ (9,954)</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ 153</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:			
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 271,806</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 7,993,114</li> <li>♦ (29,238)</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ (25,105)</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ (26,837)</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♦ (9,954)</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ 153</li> </ul>	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	334,006	
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ (29,238)         ♦ 2024       \$ 20,165,452       \$ (25,105)         ♦ 2025       \$ 24,228,135       \$ (26,837)         ♦ 2026       \$ 42,288,641       \$ (9,954)         ♦ 2027       \$ (2,258,546)       \$ 153	♦ 1% decrease in the discount rate: 6.25%			\$	407,578	
♦ 2023       \$ 7,993,114       \$ (29,238)         ♦ 2024       \$ 20,165,452       \$ (25,105)         ♦ 2025       \$ 24,228,135       \$ (26,837)         ♦ 2026       \$ 42,288,641       \$ (9,954)         ♦ 2027       \$ (2,258,546)       \$ 153	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	271,806	
♦ 2024       \$ 20,165,452       \$ (25,105)         ♦ 2025       \$ 24,228,135       \$ (26,837)         ♦ 2026       \$ 42,288,641       \$ (9,954)         ♦ 2027       \$ (2,258,546)       \$ 153	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensior	Expense:	
♦ 2025       \$ 24,228,135       \$ (26,837)         ♦ 2026       \$ 42,288,641       \$ (9,954)         ♦ 2027       \$ (2,258,546)       \$ 153					, ,	
♦ 2026       \$ 42,288,641       \$ (9,954)         ♦ 2027       \$ (2,258,546)       \$ 153						
<b>♦</b> 2027 \$ (2,258,546) \$ 153						
· · · · · · · · · · · · · · · · · · ·						
▲ Ihereatter	◆ 2027 ◆ Thereafter	\$	(2,238,346)	\$	103	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Hopedale
◆ Current Proportionate Share				1.619328%
◆ Prior Proportionate Share				1.625106%
Beginning Net Pension Liability	\$	842,013,303	\$	13,683,610
Ending Net Pension Liability	\$	1,028,277,936	\$	16,651,189
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		1,123,710
◆ Changes of Assumptions		54,491,085		882,389
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		223,007
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,229,106
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	509,569
♦ Changes of Assumptions		-		-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		236,722
Total Deferred Inflows of Resources	\$	48,341,364	\$	746,291
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,799,966
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		74,947
Total Employer Pension Expense	\$	111,155,119	\$	1,874,913
Covered Payroll:	\$	341,237,099	\$	5,798,933
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	16,651,189
◆ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	20,318,937
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	13,550,342
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	95,338
◆ 2024	\$	20,165,452	\$	306,032
♦ 2025	\$	24,228,135	\$	405,038
♦ 2026 • 2027	\$	42,288,641	\$	718,003
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(41,596)
▼ ITIGIGATO	Ψ	<del>-</del>	Ψ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	-	dale Housing Authority
♦ Current Proportionate Share				0.004699%
♦ Prior Proportionate Share				0.004551%
Beginning Net Pension Liability	\$	842,013,303	\$	38,316
Ending Net Pension Liability	\$	1,028,277,936	\$	48,322
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		3,261
♦ Changes of Assumptions		54,491,085		2,561
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		3,422
Total Deferred Outflows of Resources	\$	140,758,160	\$	9,244
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	1,479
<ul> <li>◆ Changes of Assumptions</li> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		- 25,578
Total Deferred Inflows of Resources	\$	48,341,364	\$	27,057
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119	\$	5,224 (11,579)
Total Employer Pension Expense	\$	111,155,119	\$	(6,355)
Covered Payroll:	\$	341,237,099	\$	-
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	48,322
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	58,966
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	39,323
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pension	Expense:
<b>♦</b> 2023	\$	7,993,114	\$	(5,812)
♦ 2024	\$	20,165,452	\$	(5,453)
♦ 2025	\$	24,228,135	\$	(4,366)
♦ 2026	\$	42,288,641	\$	(2,203)
♦ 2027	\$	(2,258,546)	\$	21
◆ Thereafter	\$	-	\$	-

	Wo	orcester Regional		
Pension Amounts as of December 31, 2022		Retirement System	Н	lubbardston
◆ Current Proportionate Share				0.432156%
◆ Prior Proportionate Share				0.437522%
Beginning Net Pension Liability	\$	842,013,303	\$	3,683,997
Ending Net Pension Liability	\$	1,028,277,936	\$	4,443,761
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		299,889
◆ Changes of Assumptions		54,491,085		235,486
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		180,609
Total Deferred Outflows of Resources	\$	140,758,160	\$	715,984
Total Deferred Inflows of Resources:				
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	135,990
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		197,906
Total Deferred Inflows of Resources	\$	48,341,364	\$	333,896
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	480,363
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(18,380)
Total Employer Pension Expense	\$	111,155,119	\$	461,983
Covered Payroll:	\$	341,237,099	\$	1,342,045
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	4,443,761
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	5,422,586
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	3,616,227
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	(13,678)
♦ 2024	\$	20,165,452	\$	63,122
◆ 2025	\$	24,228,135	\$	138,541
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641	\$	208,524
◆ 2027 ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(14,421)
▼ Increates	Ψ	-	Ψ	-

	Wo	orcester Regional		
	***	Retirement		
Pension Amounts as of December 31, 2022		System		Lancaster
◆ Current Proportionate Share				1.030659%
◆ Prior Proportionate Share				1.027979%
Beginning Net Pension Liability	\$	842,013,303	\$	8,655,724
Ending Net Pension Liability	\$	1,028,277,936	\$	10,598,036
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		715,212
◆ Changes of Assumptions		54,491,085		561,617
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		219,832
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,496,661
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	324,327
◆ Changes of Assumptions	·	-	·	- , - -
◆ Changes in Proportion and Differences Between Employer		16,873,429		317,759
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	48,341,364	\$	642,086
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,145,630
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions		-		27,465
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	111,155,119	\$	1,173,095
Covered Payroll:	\$	341,237,099	\$	3,135,422
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	10,598,036
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	12,932,459
◆ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	8,624,430
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	108,541
♦ 2024	\$	20,165,452	\$	216,695
◆ 2025 - 2026	\$	24,228,135	\$	170,863
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641	\$	379,431
◆ 2027 ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(20,955)
▼ Increates	Ψ	-	Ψ	-

Current Proportionate Share         0.0211203%           Prior Proportionate Share         0.0212238           Beginning Net Pension Liability         \$ 842,013,303         \$ 178,704           Ending Net Pension Liability         \$ 0.028,277,936         \$ 217,785           Total Deferred Outflows of Resources:           Differences Between Expected and Actual Experience         \$ 0.93,3646         14,697           Earnings on Pension Plan Investments         54,491,085         11,541           Changes of Assumptions         54,491,085         11,541           Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 140,758,160         \$ 26,405           Total Deferred Inflows of Resources           Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 6,665           Changes of Assumptions         \$ 16,873,429         \$ 29,281           Changes of Pasumptions         \$ 16,873,429         \$ 29,281           Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions           Total Deferred Inflows of Resources         \$ 31,467,935         \$ 23,594           Employer Pension Expense           Proportion and Differences Between Employer Contributions and	Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		easter Housing Authority
Beginning Net Pension Liability	◆ Current Proportionate Share				0.021180%
Ending Net Pension Liability	◆ Prior Proportionate Share				0.021223%
Total Deferred Outflows of Resources:         ♦ Differences Between Expected and Actual Experience         \$           ♦ Net Differences Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         14,697           € Changes of Assumptions         54,491,085         11,541           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         167           Total Deferred Outflows of Resources:         • Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 6,665           • Changes of Assumptions         • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         29,281           Employer Pension Expense:         • Proportionate Inflows of Resources         \$ 48,341,364         \$ 35,948           Employer Pension Expense:         • Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 23,542           • Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions and Proportionate Share of Contributions         1,059           Total Employer Pension Expense         \$ 111,155,119         \$ 24,601           Covered Payroll:         \$ 341,237,099         \$ 55,810           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • (2026         \$ 1,028,277,936	Beginning Net Pension Liability	\$	842,013,303	\$	178,704
◆ Differences Between Expected and Actual Experience         \$	Ending Net Pension Liability	\$	1,028,277,936	\$	217,785
Net Difference Between Projected and Actual Investments         69,393,646         14,697           Earnings on Pension Plan Investments         54,491,085         11,541           Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         167           Total Deferred Outflows of Resources           Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 6,665           Changes of Assumptions	Total Deferred Outflows of Resources:				
Earnings on Pension Plan Investments         54,491,085         11,541           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         54,491,085         11,541           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 26,405           Total Deferred Inflows of Resources           Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 6,665           ♦ Changes of Assumptions         -         -           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 48,341,364         \$ 35,946           Employer Pension Expense:           ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 23,542           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 24,601           Covered Payroll:         \$ 341,237,099         \$ 55,810           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 217,785           • 1% decrease in the discount rate: 8.25%         \$ 36,788,149         177,228           Deferred Outflows of Resources an	♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         167           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 26,405           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 6,665           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         29,281           Employer Pension Expense:         \$ 48,341,364         \$ 35,946           Employer Pension Expense:         * 111,155,119         \$ 23,542           ◆ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 24,601           Net Employer Pension Expense Entween Employer Contributions and Proportionate Share of Contributions         \$ 341,237,099         \$ 55,810           Total Employer Pension Expense         \$ 111,155,119         \$ 24,601           Covered Payroll:         \$ 341,237,099         \$ 55,810           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         * 1,028,277,936         \$ 217,785           • 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 265,757           •			69,393,646		14,697
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         167           Total Deferred Outflows of Resources         140,758,160         26,405           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 6,665           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         29,281           Employer Pension Expense:         \$ 48,341,364         \$ 35,946           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 23,542           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         1 1,059           Total Employer Pension Expense         \$ 111,155,119         \$ 24,601           Covered Payroll:         \$ 341,237,099         \$ 55,810           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         4 1,028,277,936         \$ 217,785           • 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 265,757           • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 177,728           • 2023 <th< td=""><td>◆ Changes of Assumptions</td><td></td><td>54,491,085</td><td></td><td>11,541</td></th<>	◆ Changes of Assumptions		54,491,085		11,541
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ 31,467,935 \$ 6,665    ◆ Changes of Assumptions	◆ Changes in Proportion and Differences Between Employer		16,873,429		167
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 6,665           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         29,281           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 35,946           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 23,542           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         1,059           Total Employer Pension Expense         \$ 111,155,119         \$ 24,601           Covered Payroll:         \$ 341,237,099         \$ 55,810           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 217,785           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 265,757           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 177,228           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ◆ 2023         \$ 7,993,114         \$ (6,575) </td <td>Total Deferred Outflows of Resources</td> <td>\$</td> <td>140,758,160</td> <td>\$</td> <td>26,405</td>	Total Deferred Outflows of Resources	\$	140,758,160	\$	26,405
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         29,281           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 35,946           Employer Pension Expense:           ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 23,542           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - 1,059           Total Employer Pension Expense         \$ 111,155,119         \$ 24,601           Covered Payroll:         \$ 341,237,099         \$ 55,810           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate:         7.25%         \$ 1,028,277,936         \$ 217,785           • 1% decrease in the discount rate:         6.25%         \$ 1,254,776,125         \$ 265,757           • 1% increase in the discount rate:         8.25%         8 336,788,149         177,228           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           • 2023         \$ 7,993,114         \$ (6,575)           • 2024         \$ 20,165,452         \$ (3,892)           • 2025         \$ 24,228,135         \$ (2,240)           • 2026         \$ 42,	Total Deferred Inflows of Resources:				
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         29,281           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 35,946           Employer Pension Expense:         ▼ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 23,542           Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - 1,059           Total Employer Pension Expense         \$ 111,155,119         \$ 24,601           Covered Payroll:         \$ 341,237,099         \$ 55,810           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • 1,028,277,936         \$ 217,785           • 1% decrease in the discount rate: 6.25%         \$ 1,028,277,936         \$ 217,785           • 1% increase in the discount rate: 8.25%         \$ 336,788,149         \$ 177,228           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ (6,575)           • 2024         \$ 20,165,452         \$ (3,892)         • 2024           • 2025         \$ 42,288,641         \$ 3,681           • 2026         \$ 42,288,641         \$ 3,681           • 2027         \$ (2,258,546)         \$ (515) <td>♦ Differences Between Expected and Actual Experience</td> <td>\$</td> <td>31,467,935</td> <td>\$</td> <td>6,665</td>	♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	6,665
Contributions and Proportionate Share of Contributions           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 35,946           Employer Pension Expense:			-		-
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 23,542  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 24,601  Covered Payroll: \$ 341,237,099 \$ 55,810  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 217,785  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 265,757  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 177,228  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ (6,575)  ◆ 2024 \$ 20,165,452 \$ (3,892)  ◆ 2025 \$ 24,228,135 \$ (2,240)  ◆ 2026 \$ 42,288,641 \$ 3,681  ◆ 2027 \$ (2,258,546) \$ (515)			16,873,429		29,281
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>★ 111,155,119</li> <li>★ 24,601</li> <li>Covered Payroll:</li> <li>★ 341,237,099</li> <li>★ 55,810</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 217,785</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 265,757</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>★ 836,788,149</li> <li>★ 177,228</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ (6,575)</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ (3,892)</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ (2,240)</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♠ 3,681</li> <li>♦ 2027</li> <li>♦ (2,258,546)</li> <li>♦ (515)</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	35,946
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>★ 111,155,119</li> <li>★ 24,601</li> <li>Covered Payroll:</li> <li>★ 341,237,099</li> <li>★ 55,810</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 217,785</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 265,757</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>★ 836,788,149</li> <li>★ 177,228</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ (6,575)</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ (3,892)</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ (2,240)</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♠ 3,681</li> <li>♦ 2027</li> <li>♦ (2,258,546)</li> <li>♦ (515)</li> </ul>	Employer Pension Expense:				
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$\frac{111,155,119}{341,237,099}\$\$\$ 55,810\$\$ <b>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</b> ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 217,785 \$ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 265,757 \$ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 177,228\$\$ <b>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</b> ◆ 2023 \$ 7,993,114 \$ (6,575) \$ 2024 \$ 20,165,452 \$ (3,892) \$ 2025 \$ 24,228,135 \$ (2,240) \$ 2026 \$ 42,288,641 \$ 3,681 \$ 2027\$\$		\$	111,155,119	\$	23,542
Covered Payroll:       \$ 341,237,099       \$ 55,810         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 217,785         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 265,757         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 177,228         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ (6,575)         ♦ 2024       \$ 20,165,452       \$ (3,892)         ♦ 2025       \$ 24,228,135       \$ (2,240)         ♦ 2026       \$ 42,288,641       \$ 3,681         ♦ 2027       \$ (2,258,546)       \$ (515)	Proportion and Differences Between Employer Contributions		-		1,059
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 217,785         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 265,757         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 177,228         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ (6,575)         ♦ 2024       \$ 20,165,452       \$ (3,892)         ♦ 2025       \$ 24,228,135       \$ (2,240)         ♦ 2026       \$ 42,288,641       \$ 3,681         ♦ 2027       \$ (2,258,546)       \$ (515)	Total Employer Pension Expense	\$	111,155,119	\$	24,601
◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 217,785         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 265,757         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 177,228         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ (6,575)         ◆ 2024       \$ 20,165,452       \$ (3,892)         ◆ 2025       \$ 24,228,135       \$ (2,240)         ◆ 2026       \$ 42,288,641       \$ 3,681         ◆ 2027       \$ (2,258,546)       \$ (515)	Covered Payroll:	\$	341,237,099	\$	55,810
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 265,757</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 177,228</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 7,993,114</li> <li>♦ (6,575)</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ (3,892)</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ (2,240)</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♦ 3,681</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (515)</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 177,228         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ (6,575)         ♦ 2024       \$ 20,165,452       \$ (3,892)         ♦ 2025       \$ 24,228,135       \$ (2,240)         ♦ 2026       \$ 42,288,641       \$ 3,681         ♦ 2027       \$ (2,258,546)       \$ (515)	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	217,785
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ (6,575)         ♦ 2024       \$ 20,165,452       \$ (3,892)         ♦ 2025       \$ 24,228,135       \$ (2,240)         ♦ 2026       \$ 42,288,641       \$ 3,681         ♦ 2027       \$ (2,258,546)       \$ (515)					
♦ 2023       \$ 7,993,114       \$ (6,575)         ♦ 2024       \$ 20,165,452       \$ (3,892)         • 2025       \$ 24,228,135       \$ (2,240)         • 2026       \$ 42,288,641       \$ 3,681         • 2027       \$ (2,258,546)       \$ (515)	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	177,228
♦ 2024       \$ 20,165,452       \$ (3,892)         • 2025       \$ 24,228,135       \$ (2,240)         • 2026       \$ 42,288,641       \$ 3,681         • 2027       \$ (2,258,546)       \$ (515)	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensior	Expense:
♦ 2025       \$ 24,228,135       \$ (2,240)         ♦ 2026       \$ 42,288,641       \$ 3,681         ♦ 2027       \$ (2,258,546)       \$ (515)					, ,
♦ 2026       \$ 42,288,641       \$ 3,681         ♦ 2027       \$ (2,258,546)       \$ (515)					
<b>♦</b> 2027 \$ (2,258,546) \$ (515)					
♦ Inereaπer \$ - \$ -	◆ 2021 ◆ Thereafter	φ \$	(2,200,040)	\$ \$	(212)

Current Proportionate Share         0.003556%           Prior Proportionate Share         0.003757%           Beginning Net Pension Liability         \$ 842,013,303         \$ 34,632           Ending Net Pension Liability         \$ 1,028,277,936         \$ 36,561           Total Deferred Outflows of Resources:           Differences Between Expected and Actual Experience         \$ 0,393,646         2,467           Earnings on Pension Plan Investments         54,491,085         1,937           Changes of Assumptions         54,491,085         1,937           Changes on Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 140,758,160         \$ 12,332           Total Deferred Inflows of Resources           Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,119           Changes of Assumptions         \$ 16,873,429         \$ 2,677           Changes of Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 31,467,935         \$ 1,119           Changes of Assumptions         \$ 16,873,429         \$ 3,796           Employer Pension Expense           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,395           Proportion and Differences Between Employer Contributio	Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Lan	caster Sewer
Beginning Net Pension Liability   \$ 842,013,303   \$ 31,632	◆ Current Proportionate Share				0.003556%
Ending Net Pension Liability	◆ Prior Proportionate Share				0.003757%
Total Deferred Outflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$           ♦ Net Differences Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         2,467           ♦ Changes of Assumptions         54,491,085         1,937           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         7,918           Total Deferred Outflows of Resources:         • Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,119           • Changes of Assumptions         • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         • 16,873,429         2,677           Contributions and Proportionate Share of Contributions         • 16,873,429         2,677           Employer Pension Expense:         • 111,155,119         \$ 3,796           • Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,952           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         • 111,155,119         \$ 8,651           Covered Payroll:         \$ 341,237,099         \$ 46,899           Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         • 111,155,119 </td <td>Beginning Net Pension Liability</td> <td>\$</td> <td>842,013,303</td> <td>\$</td> <td>31,632</td>	Beginning Net Pension Liability	\$	842,013,303	\$	31,632
◆ Net Differences Between Projected and Actual Experience         \$         \$         2.467           • Net Difference Between Projected and Actual Investments         69.393.646         2.467           • Changes on Pension Plan Investments         54.491.085         1.937           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16.873.429         7.918           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         * 140,758,160         * 12,322           Total Deferred Inflows of Resources:           • Differences Between Expected and Actual Experience         * 31,467,935         * 1,119           • Changes of Assumptions              • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions              • Total Deferred Inflows of Resources         * 48,341,364         * 3,796           Employer Pension Expense:         • 111,155,119         * 3,952           • Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions	Ending Net Pension Liability	\$	1,028,277,936	\$	36,561
Net Difference Between Projected and Actual Investments         69,393,646         2,467           Earnings on Pension Plan Investments         54,491,085         1,937           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         7,918           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 12,322           Total Deferred Inflows of Resources:           ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,119           ♦ Changes of Assumptions             ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         2,677           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 3,796           Employer Pension Expense:         • 111,155,119         \$ 3,952           ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,952           ♦ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions and Proportionate Share of Contributions         \$ 341,237,099         \$ 8,651           Covered Payroll:         \$ 341,237,099         \$ 46,800           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • 1,028,277,936         \$ 36,561           • 1% dec	Total Deferred Outflows of Resources:				
Earnings on Pension Plan Investments         54,491,085         1,937           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         54,491,085         1,937           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 12,322           Total Deferred Inflows of Resources           Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,119           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         2,677           Employer Pension Expense:         \$ 48,341,364         \$ 3,796           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,952           Employer Pension Expense:         \$ 111,155,119         \$ 3,952           Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 3,651           Covered Payroll:         \$ 341,237,099         \$ 6,651           Covered Payroll:         \$ 341,237,099         \$ 6,651           Covered Payroll:         \$ 341,237,099         \$ 6,651           Current discount rate:         7.25%         \$ 1,028,277,936         \$ 36,561           1% decrease in	♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         7,918           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 12,322           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,119           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         2,677           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,796           Employer Pension Expense:         \$ 111,155,119         \$ 3,952           ◆ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions         -         4,699           Proportionate Share of Contributions         Total Employer Pension Expense         \$ 111,155,119         \$ 8,651           Covered Payroll:         \$ 341,237,099         \$ 46,800           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 36,561           • 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 44,614			69,393,646		2,467
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         7,918           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 12,322           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,119           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         2,677           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,796           Employer Pension Expense:         \$ 111,155,119         \$ 3,952           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         4,699           Total Employer Pension Expense         \$ 111,155,119         \$ 3,651           Covered Payroll:         \$ 341,237,099         \$ 46,800           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 36,561           • 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         44,614	♦ Changes of Assumptions		54,491,085		1,937
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ 31,467,935 \$ 1,119  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Inflows of Resources \$ 48,341,364 \$ 3,796  Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 3,952  ◆ Net Amortization of Deferred Amounts from Changes in - 4,699  Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 8,651  Covered Payroll: \$ 341,237,099 \$ 46,800  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 36,561  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 44,614  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 29,752  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 4,392  ◆ 2024 \$ 20,165,452 \$ 1,570  ◆ 2026 \$ 42,228,135 \$ 1,055  ◆ 2026 \$ 42,228,135 \$ 1,055  ◆ 2026 \$ 42,228,641 \$ 1,767  ◆ 2027 \$ (2,258,546) \$ (258)	◆ Changes in Proportion and Differences Between Employer		16,873,429		7,918
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 1,119           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         2,677           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 3,796           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,952           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         4,699           Total Employer Pension Expense         \$ 111,155,119         \$ 8,651           Covered Payroll:         \$ 341,237,099         \$ 46,800           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 36,561           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 44,614           ◆ 1% increase in the discount rate: 8.25%         \$ 336,788,149         \$ 29,752           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ◆ 2023         \$ 7,993,114         \$ 4,392	Total Deferred Outflows of Resources	\$	140,758,160	\$	12,322
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         2,677           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 3,796           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,952           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - 4,699           Total Employer Pension Expense         \$ 111,155,119         \$ 8,651           Covered Payroll:         \$ 341,237,099         \$ 46,800           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate:         7.25%         \$ 1,028,277,936         \$ 36,561           ◆ 1% decrease in the discount rate:         6.25%         \$ 1,254,776,125         \$ 44,614           ◆ 1% increase in the discount rate:         8.25%         836,788,149         29,752           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ◆ 2023         \$ 7,993,114         \$ 4,392           ◆ 2024         \$ 20,165,452         \$ 1,570           ◆ 2025         \$ 24,228,135         \$ 1,055           ◆ 2026	Total Deferred Inflows of Resources:				
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         2,677           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 3,796           Employer Pension Expense:         • Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,952           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 8,651           Covered Payroll:         \$ 341,237,099         \$ 46,800           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 36,561           • 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 44,614           • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 29,752           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 4,392           • 2023         \$ 7,993,114         \$ 4,392           • 2024         \$ 20,165,452         \$ 1,570           • 2025         \$ 42,288,641         \$ 1,767           • 2026         \$ 42,288,641         \$ 1,767           • 2027         \$ (2,558,546)         \$ (258)	♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	1,119
Total Deferred Inflows of Resources \$ 48,341,364 \$ 3,796  Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 3,952  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 8,651  Covered Payroll: \$ 341,237,099 \$ 46,800  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 36,561  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 44,614  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 29,752  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 4,392  ◆ 2024 \$ 20,165,452 \$ 1,570  ◆ 2025 \$ 24,228,135 \$ 1,055  ◆ 2026 \$ 42,288,641 \$ 1,767  ◆ 2027 \$ (2,258,546) \$ (258)			-		-
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 3,952  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 8,651  Covered Payroll: \$ 341,237,099 \$ 46,800  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 36,561  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 44,614  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 29,752  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 4,392  ◆ 2024 \$ 20,165,452 \$ 1,570  ◆ 2025 \$ 24,228,135 \$ 1,055  ◆ 2026 \$ 42,288,641 \$ 1,767  ◆ 2027 \$ (2,258,546) \$ (258)			16,873,429		2,677
◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,952           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - 4,699           Total Employer Pension Expense         \$ 111,155,119         \$ 8,651           Covered Payroll:         \$ 341,237,099         \$ 46,800           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 36,561           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 44,614           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 29,752           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 4,392           • 2024         \$ 20,165,452         \$ 1,570           • 2025         \$ 24,228,135         \$ 1,055           • 2026         \$ 42,288,641         \$ 1,767           • 2027         \$ (2,258,546)         \$ (258)	Total Deferred Inflows of Resources	\$	48,341,364	\$	3,796
◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 3,952           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - 4,699           Total Employer Pension Expense         \$ 111,155,119         \$ 8,651           Covered Payroll:         \$ 341,237,099         \$ 46,800           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 36,561           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 44,614           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 29,752           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 4,392           • 2024         \$ 20,165,452         \$ 1,570           • 2025         \$ 24,228,135         \$ 1,055           • 2026         \$ 42,288,641         \$ 1,767           • 2027         \$ (2,258,546)         \$ (258)	Employer Pension Expense:		_		_
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         Total Employer Pension Expense</li></ul>		\$	111,155,119	\$	3,952
Covered Payroll:       \$ 341,237,099       \$ 46,800         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 36,561         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 44,614         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 29,752         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 4,392         ♦ 2024       \$ 20,165,452       \$ 1,570         ♦ 2025       \$ 24,228,135       \$ 1,055         ♦ 2026       \$ 42,288,641       \$ 1,767         ♦ 2027       \$ (2,258,546)       \$ (258)	◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions		-		4,699
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 36,561         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 44,614         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 29,752         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 4,392         ♦ 2024       \$ 20,165,452       \$ 1,570         ♦ 2025       \$ 24,228,135       \$ 1,055         ♦ 2026       \$ 42,288,641       \$ 1,767         ♦ 2027       \$ (2,258,546)       \$ (258)	Total Employer Pension Expense	\$	111,155,119	\$	8,651
♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 36,561         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 44,614         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 29,752         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 4,392         ♦ 2024       \$ 20,165,452       \$ 1,570         ♦ 2025       \$ 24,228,135       \$ 1,055         ♦ 2026       \$ 42,288,641       \$ 1,767         ♦ 2027       \$ (2,258,546)       \$ (258)	Covered Payroll:	\$	341,237,099	\$	46,800
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 44,614</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 29,752</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 4,392</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 1,570</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 1,055</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 1,767</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (258)</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 29,752</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 7,993,114</li> <li>\$ 4,392</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 1,570</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 1,055</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 1,767</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (258)</li> </ul>	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	36,561
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 4,392         ♦ 2024       \$ 20,165,452       \$ 1,570         ♦ 2025       \$ 24,228,135       \$ 1,055         ♦ 2026       \$ 42,288,641       \$ 1,767         ♦ 2027       \$ (2,258,546)       \$ (258)					
♦ 2023       \$ 7,993,114       \$ 4,392         ♦ 2024       \$ 20,165,452       \$ 1,570         ♦ 2025       \$ 24,228,135       \$ 1,055         ♦ 2026       \$ 42,288,641       \$ 1,767         ♦ 2027       \$ (2,258,546)       \$ (258)	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	29,752
♦ 2024       \$ 20,165,452       \$ 1,570         ♦ 2025       \$ 24,228,135       \$ 1,055         ♦ 2026       \$ 42,288,641       \$ 1,767         ♦ 2027       \$ (2,258,546)       \$ (258)	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensior	Expense:
♦ 2025       \$ 24,228,135       \$ 1,055         ♦ 2026       \$ 42,288,641       \$ 1,767         ♦ 2027       \$ (2,258,546)       \$ (258)					·
♦ 2026       \$ 42,288,641       \$ 1,767         ♦ 2027       \$ (2,258,546)       \$ (258)					
<b>♦</b> 2027 \$ (2,258,546) \$ (258)					
♦ Inereaπer \$ - \$ -	◆ Z027 ◆ Thereafter	Ф \$	(2,230,340)	\$	(208)

	Wo	orcester Regional		
Pension Amounts as of December 31, 2022		Retirement System		Leicester
◆ Current Proportionate Share				2.112122%
◆ Prior Proportionate Share				2.104685%
Beginning Net Pension Liability	\$	842,013,303	\$	17,721,724
Ending Net Pension Liability	\$	1,028,277,936	\$	21,718,485
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		1,465,678
◆ Changes of Assumptions		54,491,085		1,150,918
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		265,554
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,882,150
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	664,641
♦ Changes of Assumptions		-		-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		352,010
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,016,651
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	2,347,732
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		5,049
Total Employer Pension Expense	\$	111,155,119	\$	2,352,781
Covered Payroll:	\$	341,237,099	\$	6,387,084
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	21,718,485
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	26,502,403
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	17,673,987
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	197,152
♦ 2024	\$	20,165,452	\$	436,698
♦ 2025	\$	24,228,135	\$	434,888
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641 (2,258,546)	\$ \$	838,007
◆ 2027 ◆ Thereafter	\$	(2,230,340)	\$	(41,246)
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<ul> <li>◆ Prior Proportionate Share</li> <li>Beginning Net Pension Liability</li> <li>\$ 842,013,303</li> <li>Ending Net Pension Liability</li> <li>\$ 1,028,277,936</li> <li>Total Deferred Outflows of Resources:</li> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Net Difference Between Projected and Actual Investment         Earnings on Pension Plan Investments</li> <li>◆ Changes of Assumptions</li> <li>◆ Changes in Proportion and Differences Between Employer         Contributions and Proportionate Share of Contributions</li> </ul>	081131% 081232% <b>683,981</b> <b>834,251</b> 56,300 44,209 43,991
Beginning Net Pension Liability \$ 842,013,303 \$  Ending Net Pension Liability \$ 1,028,277,936 \$  Total Deferred Outflows of Resources:  • Differences Between Expected and Actual Experience \$ - \$  • Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments  • Changes of Assumptions 54,491,085  • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	683,981 834,251 56,300 44,209 43,991
Ending Net Pension Liability \$ 1,028,277,936 \$  Total Deferred Outflows of Resources:  • Differences Between Expected and Actual Experience \$ - \$  • Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments  • Changes of Assumptions 54,491,085  • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	<b>834,251</b> 56,300 44,209 43,991
Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ - \$  ◆ Net Difference Between Projected and Actual Investment 69,393,646 Earnings on Pension Plan Investments  ◆ Changes of Assumptions 54,491,085  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	- 56,300 44,209 43,991
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Net Difference Between Projected and Actual Investment         Earnings on Pension Plan Investments</li> <li>◆ Changes of Assumptions</li> <li>◆ Changes in Proportion and Differences Between Employer         Contributions and Proportionate Share of Contributions</li> </ul>	44,209 43,991
<ul> <li>Net Difference Between Projected and Actual Investment         <ul> <li>Earnings on Pension Plan Investments</li> </ul> </li> <li>Changes of Assumptions         <ul> <li>Changes in Proportion and Differences Between Employer</li></ul></li></ul>	44,209 43,991
Earnings on Pension Plan Investments  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	44,209 43,991
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  16,873,429	43,991
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  16,873,429	
Total Deferred Outflows of Resources \$ 140.758.160 \$	144,500
Total Deferred Inflows of Resources:	
♦ Differences Between Expected and Actual Experience \$ 31,467,935 \$	25,530
♦ Changes of Assumptions -	-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  16,873,429	748
Total Deferred Inflows of Resources \$ 48,341,364 \$	26,278
Employer Pension Expense:	
◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$	90,181
◆ Net Amortization of Deferred Amounts from Changes in  Proportion and Differences Between Employer Contributions  and Proportionate Share of Contributions	13,490
Total Employer Pension Expense \$ 111,155,119 \$	103,671
<b>Covered Payroll:</b> \$ 341,237,099 \$	227,636
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:	
♦ Current discount rate: 7.25% \$ 1,028,277,936 \$	834,251
	,018,011
♦ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$	678,894
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expe	ense:
◆ 2023 \$ 7,993,114 \$	25,415
◆ 2024 \$ 20,165,452 \$	32,295
♦ 2025 \$ 24,228,135 \$	24,642
<ul><li>◆ 2026</li><li>◆ 2027</li><li>\$ 42,288,641</li><li>\$ (2,258,546)</li><li>\$ (2,258,546)</li></ul>	37,790
♦ 2027 \$ (2,258,546) \$ ♦ Thereafter \$ - \$	(1,920)

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Lei	cester Water District
◆ Current Proportionate Share				0.071947%
♦ Prior Proportionate Share				0.075779%
Beginning Net Pension Liability	\$	842,013,303	\$	638,069
Ending Net Pension Liability	\$	1,028,277,936	\$	739,820
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		49,927
◆ Changes of Assumptions		54,491,085		39,205
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		41,464
Total Deferred Outflows of Resources	\$	140,758,160	\$	130,596
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	22,640
◆ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		76,348
Total Deferred Inflows of Resources	\$	48,341,364	\$	98,988
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	79,973
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(27,195)
Total Employer Pension Expense	\$	111,155,119	\$	52,778
Covered Payroll:	\$	341,237,099	\$	468,584
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	739,820
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	902,779
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	602,048
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensior	Expense:
◆ 2023	\$	7,993,114	\$	(5,105)
♦ 2024	\$	20,165,452	\$	4,522
♦ 2025	\$	24,228,135	\$	16,560
♦ 2026 • 2027	\$	42,288,641	\$	20,586
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(4,955)
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Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Lunenburg
◆ Current Proportionate Share				2.077432%
◆ Prior Proportionate Share				2.070507%
Beginning Net Pension Liability	\$	842,013,303	\$	17,433,946
Ending Net Pension Liability	\$	1,028,277,936	\$	21,361,778
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		1,441,606
◆ Changes of Assumptions		54,491,085		1,132,015
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		171,490
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,745,111
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	653,725
◆ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		951,645
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,605,370
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	2,309,172
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(158,202)
Total Employer Pension Expense	\$	111,155,119	\$	2,150,970
Covered Payroll:	\$	341,237,099	\$	7,853,347
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	21,361,778
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	26,067,125
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	17,383,707
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
<ul><li>◆ 2023</li></ul>	\$	7,993,114	\$	(16,698)
◆ 2024	\$	20,165,452	\$	222,055
◆ 2025 • 2026	\$	24,228,135	\$	267,550
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641 (2,258,546)	\$ \$	707,743 (40,909)
◆ Thereafter	\$	-	\$	- (40,303)

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		nburg Housing Authority
◆ Current Proportionate Share				0.003148%
◆ Prior Proportionate Share				0.003208%
Beginning Net Pension Liability	\$	842,013,303	\$	27,009
Ending Net Pension Liability	\$	1,028,277,936	\$	32,375
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		2,185
◆ Changes of Assumptions		54,491,085		1,716
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		3,936
Total Deferred Outflows of Resources	\$	140,758,160	\$	7,837
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	991
◆ Changes of Assumptions		-		-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		946
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,937
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	3,500
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(4,308)
Total Employer Pension Expense	\$	111,155,119	\$	(808)
Covered Payroll:	\$	341,237,099	\$	11,264
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	32,375
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	39,506
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	26,346
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pension	Expense:
<b>♦</b> 2023	\$	7,993,114	\$	1,209
♦ 2024	\$	20,165,452	\$	1,641
♦ 2025	\$	24,228,135	\$	1,370
♦ 2026 • 2027	\$	42,288,641	\$	1,803
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(123)
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Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Lun	enburg Water District
◆ Current Proportionate Share				0.093346%
♦ Prior Proportionate Share				0.090272%
Beginning Net Pension Liability	\$	842,013,303	\$	760,101
Ending Net Pension Liability	\$	1,028,277,936	\$	959,856
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		64,776
◆ Changes of Assumptions		54,491,085		50,865
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		54,745
Total Deferred Outflows of Resources	\$	140,758,160	\$	170,386
Total Deferred Inflows of Resources:				
Differences Between Expected and Actual Experience     Changes of Assumptions	\$	31,467,935	\$	29,374
<ul> <li>◆ Changes of Assumptions</li> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		49,918
Total Deferred Inflows of Resources	\$	48,341,364	\$	79,292
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	103,759
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(1,838)
Total Employer Pension Expense	\$	111,155,119	\$	101,921
Covered Payroll:	\$	341,237,099	\$	373,362
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	959,856
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	1,171,283
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	781,108
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	15,202
<b>♦</b> 2024	\$	20,165,452	\$	22,305
♦ 2025	\$	24,228,135	\$	18,068
♦ 2026	\$	42,288,641	\$	34,958
♦ 2027	\$	(2,258,546)	\$	561
◆ Thereafter	\$	-	\$	-

	Wo	orcester Regional		
Pension Amounts as of December 31, 2022		Retirement System		Mendon
◆ Current Proportionate Share		_		1.119166%
♦ Prior Proportionate Share				1.120460%
Beginning Net Pension Liability	\$	842,013,303	\$	9,434,419
Ending Net Pension Liability	\$	1,028,277,936	\$	11,508,140
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		776,630
♦ Changes of Assumptions		54,491,085		609,846
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		442,210
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,828,686
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	352,179
◆ Changes of Assumptions	·	-	·	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		33,654
Total Deferred Inflows of Resources	\$	48,341,364	\$	385,833
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,244,011
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		204,334
Total Employer Pension Expense	\$	111,155,119	\$	1,448,345
Covered Payroll:	\$	341,237,099	\$	3,066,522
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	11,508,140
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	14,043,032
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	9,365,051
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	229,561
◆ 2024	\$	20,165,452	\$	359,928
♦ 2025	\$	24,228,135	\$	348,616
♦ 2026	\$	42,288,641	\$	531,146
♦ 2027	\$	(2,258,546)	\$	(26,398)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	M	lendon-Upton Regional
♦ Current Proportionate Share				1.246699%
◆ Prior Proportionate Share				1.250808%
Beginning Net Pension Liability	\$	842,013,303	\$	10,531,968
Ending Net Pension Liability	\$	1,028,277,936	\$	12,819,530
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		865,130
◆ Changes of Assumptions		54,491,085		679,340
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		9,049
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,553,519
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	392,310
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		187,596
Total Deferred Inflows of Resources	\$	48,341,364	\$	579,906
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in	\$	111,155,119	\$	1,385,770 (25,591)
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	111,155,119	\$	1,360,179
Covered Payroll:	\$	341,237,099	\$	4,775,640
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	12,819,530
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	15,643,281
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	10,432,229
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	45,531
♦ 2024	\$	20,165,452	\$	206,384
♦ 2025	\$	24,228,135	\$	255,848
♦ 2026	\$	42,288,641	\$	497,573
♦ 2027	\$	(2,258,546)	\$	(31,723)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Millbury
◆ Current Proportionate Share				2.987377%
◆ Prior Proportionate Share				2.975708%
Beginning Net Pension Liability	\$	842,013,303	\$	25,055,853
Ending Net Pension Liability	\$	1,028,277,936	\$	30,718,536
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		2,073,050
◆ Changes of Assumptions		54,491,085		1,627,854
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		136,109
Total Deferred Outflows of Resources	\$	140,758,160	\$	3,837,013
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> </ul>	\$	31,467,935 -	\$	940,066
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		585,610
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,525,676
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	3,320,622
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(193,618)
Total Employer Pension Expense	\$	111,155,119	\$	3,127,004
Covered Payroll:	\$	341,237,099	\$	8,485,566
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	30,718,536
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	37,484,890
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	24,998,014
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	17,302
♦ 2024	\$	20,165,452	\$	414,987
◆ 2025	\$	24,228,135	\$	696,267
♦ 2026	\$	42,288,641	\$	1,240,119
• 2027	\$	(2,258,546)	\$	(57,338)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Mil	lbury Housing Authority
◆ Current Proportionate Share				0.157134%
◆ Prior Proportionate Share				0.156054%
Beginning Net Pension Liability	\$	842,013,303	\$	1,313,999
Ending Net Pension Liability	\$	1,028,277,936	\$	1,615,779
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		109,041
◆ Changes of Assumptions		54,491,085		85,624
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		10,855
Total Deferred Outflows of Resources	\$	140,758,160	\$	205,520
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	49,447
<ul> <li>◆ Changes of Assumptions</li> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		30,351
Total Deferred Inflows of Resources	\$	48,341,364	\$	79,798
Employer Pension Expense:		_		
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	174,663
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(9,168)
Total Employer Pension Expense	\$	111,155,119	\$	165,495
Covered Payroll:	\$	341,237,099	\$	455,025
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	1,615,779
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	1,971,685
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	1,314,882
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	4,150
<b>♦</b> 2024	\$	20,165,452	\$	24,694
<b>♦</b> 2025	\$	24,228,135	\$	35,137
♦ 2026	\$	42,288,641	\$	64,352
<b>♦</b> 2027	\$	(2,258,546)	\$	(2,611)
◆ Thereafter	\$	-	\$	-

Earnings on Pension Plan Investments  Changes of Assumptions  Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	3486% 2 <b>,254</b>
Beginning Net Pension Liability \$ 842,013,303 \$ 2,412  Ending Net Pension Liability \$ 1,028,277,936 \$ 2,854  Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ - \$  ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments  ◆ Changes of Assumptions 54,491,085 151  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Outflows of Resources \$ 140,758,160 \$ 425	2,254 1,768 - 2,655 1,281 1,431
Ending Net Pension Liability \$ 1,028,277,936 \$ 2,854  Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ - \$  ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments  ◆ Changes of Assumptions 54,491,085 151  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Outflows of Resources \$ 140,758,160 \$ 425	1,768 - 2,655 1,281 1,431
Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ - \$  ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments  ◆ Changes of Assumptions 54,491,085 151  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Outflows of Resources \$ 140,758,160 \$ 425	- 2,655 1,281 1,431 5,367
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Net Difference Between Projected and Actual Investment         Earnings on Pension Plan Investments</li> <li>◆ Changes of Assumptions</li> <li>◆ Changes in Proportion and Differences Between Employer         Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Outflows of Resources</li> <li>\$ - \$</li> <li>69,393,646</li> <li>192</li> <li>192</li> <li>69,393,646</li> <li>192</li> <li>193</li> <li< th=""><th>1,281 1,431 5,367</th></li<></ul>	1,281 1,431 5,367
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Outflows of Resources</li> <li>192</li> <li>69,393,646</li> <li>192</li> <li>151</li> <li>16,873,429</li> <li>81</li> <li>140,758,160</li> <li>425</li> </ul>	1,281 1,431 5,367
Earnings on Pension Plan Investments  ◆ Changes of Assumptions 54,491,085 151  ◆ Changes in Proportion and Differences Between Employer 16,873,429 81  Contributions and Proportionate Share of Contributions  Total Deferred Outflows of Resources \$ 140,758,160 \$ 425	1,281 1,431 5,367
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions       16,873,429       81         Total Deferred Outflows of Resources       \$ 140,758,160       \$ 425	1,431 5,367
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Outflows of Resources  \$ 140,758,160 \$ 425	5,367
Total Deferred Inflows of Resources:	<sup>7</sup> ,363
	<sup>7</sup> ,363
·	
◆ Changes of Assumptions -	-
<ul> <li>◆ Changes in Proportion and Differences Between Employer 16,873,429 150</li> <li>Contributions and Proportionate Share of Contributions</li> </ul>	0,414
Total Deferred Inflows of Resources \$ 48,341,364 \$ 237	7,777
Employer Pension Expense:	
	3,596
<ul> <li>Net Amortization of Deferred Amounts from Changes in         <ul> <li>Proportion and Differences Between Employer Contributions</li> <li>and Proportionate Share of Contributions</li> </ul> </li> </ul>	2,671
Total Employer Pension Expense \$ 111,155,119 \$ 331	L,267
Covered Payroll: \$ 341,237,099 \$ 651	1,000
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:	
♦ Current discount rate: 7.25% \$ 1,028,277,936 \$ 2,854	1,768
♦ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 3,483	
♦ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 2,323	3,142
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense	e:
	2,418
	9,073
	2,207
	7,861
♦ 2027 \$ (2,258,546) \$ (13 ♦ Thereafter \$ - \$	3,969)

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	N	arragansett Regional
◆ Current Proportionate Share				0.759682%
♦ Prior Proportionate Share				0.764147%
Beginning Net Pension Liability	\$	842,013,303	\$	6,434,221
Ending Net Pension Liability	\$	1,028,277,936	\$	7,811,647
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		527,171
◆ Changes of Assumptions		54,491,085		413,959
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		638,113
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,579,243
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	239,056
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		- 61,536
Continuations and Proportionate Share of Continuations				
Total Deferred Inflows of Resources	\$	48,341,364	\$	300,592
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	844,426
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		-		119,218
Total Employer Pension Expense	\$	111,155,119	\$	963,644
Covered Payroll:	\$	341,237,099	\$	3,027,130
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	7,811,647
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	9,532,314
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	6,356,933
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	210,551
◆ 2024	\$	20,165,452	\$	305,441
♦ 2025	\$	24,228,135	\$	347,629
♦ 2026 • 2027	\$	42,288,641	\$	436,063
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(21,033)
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Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Nas	shoba Regional
◆ Current Proportionate Share				1.635254%
◆ Prior Proportionate Share				1.637621%
Beginning Net Pension Liability	\$	842,013,303	\$	13,788,983
Ending Net Pension Liability	\$	1,028,277,936	\$	16,814,961
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		1,134,763
◆ Changes of Assumptions		54,491,085		891,068
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		-
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,025,831
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	514,581
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		565,991
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,080,572
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,817,669
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(7,806)
Total Employer Pension Expense	\$	111,155,119	\$	1,809,863
Covered Payroll:	\$	341,237,099	\$	6,648,761
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	16,814,961
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	20,518,783
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	13,683,616
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future l	Pensio	n Expense:
<ul><li>◆ 2023</li></ul>	\$	7,993,114	\$	(68,523)
◆ 2024	\$	20,165,452	\$	155,399
◆ 2025 • 2026	\$	24,228,135	\$	283,688
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641 (2,258,546)	\$ \$	613,683 (38,988)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		shoba Valley Dispatch
◆ Current Proportionate Share				0.075006%
◆ Prior Proportionate Share				0.075963%
Beginning Net Pension Liability	\$	842,013,303	\$	639,618
Ending Net Pension Liability	\$	1,028,277,936	\$	771,271
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		52,049
♦ Changes of Assumptions		54,491,085		40,872
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		192,702
Total Deferred Outflows of Resources	\$	140,758,160	\$	285,623
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Changes of Assumptions	\$	31,467,935 -	\$	23,603
<ul> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		9,420
Total Deferred Inflows of Resources	\$	48,341,364	\$	33,023
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	83,373 103,878
Total Employer Pension Expense	\$	111,155,119	\$	187,251
Covered Payroll:	\$	341,237,099	\$	870,168
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	771,271
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	941,159
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	627,642
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pension	Expense:
<b>♦</b> 2023	\$	7,993,114	\$	103,510
<b>♦</b> 2024	\$	20,165,452	\$	71,747
♦ 2025	\$	24,228,135	\$	35,715
♦ 2026	\$	42,288,641	\$	44,151
♦ 2027	\$	(2,258,546)	\$	(2,523)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Ne	ew Braintree
◆ Current Proportionate Share				0.089977%
◆ Prior Proportionate Share				0.089056%
Beginning Net Pension Liability	\$	842,013,303	\$	749,865
Ending Net Pension Liability	\$	1,028,277,936	\$	925,217
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		62,439
◆ Changes of Assumptions		54,491,085		49,030
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		22,052
Total Deferred Outflows of Resources	\$	140,758,160	\$	133,521
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	28,314
◆ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		37,947
Total Deferred Inflows of Resources	\$	48,341,364	\$	66,261
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions	\$	111,155,119	\$	100,014 (40,547)
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	111,155,119	\$	59,467
Covered Payroll:	\$	341,237,099	\$	218,152
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	925,217
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	1,129,014
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	752,920
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	6,728
◆ 2024	\$	20,165,452	\$	15,501
♦ 2025	\$	24,228,135	\$	13,966
♦ 2026 ♦ 2027	\$	42,288,641	\$	32,297
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(1,232)
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Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Northboro
◆ Current Proportionate Share				3.459268%
◆ Prior Proportionate Share				3.446106%
Beginning Net Pension Liability	\$	842,013,303	\$	29,016,674
Ending Net Pension Liability	\$	1,028,277,936	\$	35,570,892
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		2,400,512
◆ Changes of Assumptions		54,491,085		1,884,993
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		459,430
Total Deferred Outflows of Resources	\$	140,758,160	\$	4,744,935
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	1,088,560
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		330,864
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,419,424
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	3,845,154
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		171,141
Total Employer Pension Expense	\$	111,155,119	\$	4,016,295
Covered Payroll:	\$	341,237,099	\$	11,059,672
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	35,570,892
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	43,406,072
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	28,946,747
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	404,675
◆ 2024	\$	20,165,452	\$	771,511
♦ 2025	\$	24,228,135	\$	794,901
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641	\$	1,421,123
◆ 2027 ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(66,699)
▼ Increased	Ψ	-	Ψ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Nort	hboro Housing Authority
♦ Current Proportionate Share				0.110144%
♦ Prior Proportionate Share				0.109817%
Beginning Net Pension Liability	\$	842,013,303	\$	924,674
Ending Net Pension Liability	\$	1,028,277,936	\$	1,132,582
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		76,433
◆ Changes of Assumptions		54,491,085		60,018
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		4,128
Total Deferred Outflows of Resources	\$	140,758,160	\$	140,579
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	34,660
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		13,289
Total Deferred Inflows of Resources	\$	48,341,364	\$	47,949
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	122,430
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		3,843
Total Employer Pension Expense	\$	111,155,119	\$	126,273
Covered Payroll:	\$	341,237,099	\$	288,758
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	1,132,582
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	1,382,055
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	921,668
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	5,939
♦ 2024	\$	20,165,452	\$	19,584
♦ 2025	\$	24,228,135	\$	24,470
♦ 2026	\$	42,288,641	\$	44,842
♦ 2027	\$	(2,258,546)	\$	(2,205)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	rcester Regional Retirement System		Northboro- hboro Regional
◆ Current Proportionate Share				0.697510%
◆ Prior Proportionate Share				0.701794%
Beginning Net Pension Liability	\$	842,013,303	\$	5,909,200
Ending Net Pension Liability	\$	1,028,277,936	\$	7,172,342
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		484,028
◆ Changes of Assumptions		54,491,085		380,081
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		363,102
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,227,211
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer	\$	31,467,935 - 16,873,429	\$	219,492 - 53,084
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	48,341,364	\$	272,576
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	775,318 161,397
Total Employer Pension Expense	\$	111,155,119	\$	936,715
Covered Payroll:	\$	341,237,099	\$	2,589,568
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	7,172,342
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	8,752,190
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	5,836,682
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	144,922
<b>♦</b> 2024	\$	20,165,452	\$	233,089
♦ 2025	\$	24,228,135	\$	245,851
♦ 2026	\$	42,288,641	\$	350,246
<b>♦</b> 2027	\$	(2,258,546)	\$	(19,473)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	No	rth Brookfield
◆ Current Proportionate Share				0.892330%
◆ Prior Proportionate Share				0.894649%
Beginning Net Pension Liability	\$	842,013,303	\$	7,533,067
Ending Net Pension Liability	\$	1,028,277,936	\$	9,175,634
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		619,220
◆ Changes of Assumptions		54,491,085		486,240
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		517,334
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,622,794
Total Deferred Inflows of Resources:				
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	280,798
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		30,684
Total Deferred Inflows of Resources	\$	48,341,364	\$	311,482
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	991,871
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		156,958
Total Employer Pension Expense	\$	111,155,119	\$	1,148,829
Covered Payroll:	\$	341,237,099	\$	2,704,994
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	9,175,634
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	11,196,746
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	7,466,913
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	263,939
◆ 2024	\$	20,165,452	\$	351,492
♦ 2025	\$	24,228,135	\$	288,181
♦ 2026 • 2027	\$	42,288,641	\$	429,867
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(22,167)
▼ ITIGIGATO	Ψ	<del>-</del>	Ψ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		th Brookfield sing Authority
◆ Current Proportionate Share				0.029763%
◆ Prior Proportionate Share				0.029611%
Beginning Net Pension Liability	\$	842,013,303	\$	249,325
Ending Net Pension Liability	\$	1,028,277,936	\$	306,045
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		20,654
◆ Changes of Assumptions		54,491,085		16,218
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		18,536
Total Deferred Outflows of Resources	\$	140,758,160	\$	55,408
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	9,366
♦ Changes of Assumptions		-		-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		15,856
Total Deferred Inflows of Resources	\$	48,341,364	\$	25,222
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	33,083
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(2,013)
Total Employer Pension Expense	\$	111,155,119	\$	31,070
Covered Payroll:	\$	341,237,099	\$	58,237
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	306,045
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	373,457
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	249,052
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pension	Expense:
<b>♦</b> 2023	\$	7,993,114	\$	(219)
♦ 2024	\$	20,165,452	\$	3,686
♦ 2025	\$	24,228,135	\$	11,836
♦ 2026	\$	42,288,641	\$	15,424
♦ 2027	\$	(2,258,546)	\$	(541)
◆ Thereafter	\$	-	\$	-

	Wo	prcester Regional		
Pension Amounts as of December 31, 2022		Retirement System		Oakham
◆ Current Proportionate Share				0.104953%
♦ Prior Proportionate Share				0.104250%
Beginning Net Pension Liability	\$	842,013,303	\$	877,795
Ending Net Pension Liability	\$	1,028,277,936	\$	1,079,213
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		72,831
♦ Changes of Assumptions		54,491,085		57,190
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		9,893
Total Deferred Outflows of Resources	\$	140,758,160	\$	139,914
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	33,027
♦ Changes of Assumptions		-		-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		73,948
Total Deferred Inflows of Resources	\$	48,341,364	\$	106,975
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	116,661
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(37,705)
Total Employer Pension Expense	\$	111,155,119	\$	78,956
Covered Payroll:	\$	341,237,099	\$	402,042
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	1,079,213
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	1,316,931
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	878,238
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	(8,332)
♦ 2024	\$	20,165,452	\$	4,495
♦ 2025	\$	24,228,135	\$	7,088
♦ 2026	\$	42,288,641	\$	31,451
♦ 2027	\$	(2,258,546)	\$	(1,763)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Oxford
◆ Current Proportionate Share				3.343608%
♦ Prior Proportionate Share				3.348789%
Beginning Net Pension Liability	\$	842,013,303	\$	28,197,247
Ending Net Pension Liability	\$	1,028,277,936	\$	34,381,578
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		2,320,251
◆ Changes of Assumptions		54,491,085		1,821,968
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		624,591
Total Deferred Outflows of Resources	\$	140,758,160	\$	4,766,810
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	1,052,164
◆ Changes of Assumptions		· · ·		-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		493,797
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,545,961
Employer Pension Expense:  • Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	3,716,591
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	ř	-	·	(343,426)
Total Employer Pension Expense	\$	111,155,119	\$	3,373,165
Covered Payroll:	\$	341,237,099	\$	10,139,165
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	34,381,578
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	41,954,789
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	27,978,911
Deferred Outflows of Resources and Deferred Inflows of Resources	ırces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	227,835
◆ 2024	\$	20,165,452	\$	609,889
♦ 2025	\$	24,228,135	\$	950,329
◆ 2026	\$	42,288,641	\$	1,512,813
◆ 2027	\$	(2,258,546)	\$	(80,017)
♦ Thereafter	\$	-	\$	-

Current Proportionate Share         0.116658%         Prior Proportionate Share         0.1162637%         0.1162637%         0.1162637%         0.1156267         0.11	Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Oxford Housing Authority		
Reginning Net Pension Liability	◆ Current Proportionate Share				0.116658%	
Ending Net Pension Liability	◆ Prior Proportionate Share				0.116287%	
Total Deferred Outflows of Resources:	Beginning Net Pension Liability	\$	842,013,303	\$	979,149	
◆ Differences Between Expected and Actual Experience         \$	Ending Net Pension Liability	\$	1,028,277,936	\$	1,199,570	
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         80,953           € Changes of Assumptions         54,491,085         63,568           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         57,658           Total Deferred Outflows of Resources           ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 36,710           ♦ Changes of Assumptions         • Changes of Assumptions         • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         48,500           Employer Pension Expense:           • Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 129,672           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         • 11,55,119         \$ 144,549           Covered Payroll:         \$ 341,237,099         349,291           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,199,570           • 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 1,463,799           • 1% increase in the discount rate: 8.25%	Total Deferred Outflows of Resources:					
Earnings on Pension Plan Investments         54,491,085         63,568           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         57,658           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 202,179           Total Deferred Inflows of Resources           ● Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 36,710           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         48,341,364         85,210           Employer Pension Expense:         \$ 111,155,119         \$ 129,672           ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 144,549           Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions and Proportionate Share of Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 144,221           Covered Payroll:         \$ 341,237,099         \$ 349,291           Sensitivity of the Net Pension Liability to Changes in the Discourt Rate:         \$ 1,028,277,936         \$ 1,199,570           • 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 1,463,799           • 1% increase in the discount rate: 8.25%         \$ 36,788,149	♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         57,658           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 202,179           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 36,710           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 48,341,364         \$ 85,210           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 129,672           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 144,249           Covered Payroll:         \$ 341,237,099         \$ 349,291           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,199,570           ◆ 1% increase in the discount rate: 8.25%         \$ 1,254,776,125         \$ 1,463,799           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 976,182           Deferred Outflows of Resour			69,393,646		80,953	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         57,658           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 202,179           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 36,710           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 48,341,364         \$ 85,210           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 129,672           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 144,249           Covered Payroll:         \$ 341,237,099         \$ 349,291           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,199,570           ◆ 1% increase in the discount rate: 8.25%         \$ 1,254,776,125         \$ 1,463,799           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 976,182           Deferred Outflows of Resour	♦ Changes of Assumptions		54,491,085		63,568	
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ 31,467,935 \$ 36,710  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Inflows of Resources \$ 48,341,364 \$ 85,210   Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 129,672  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 144,221  Covered Payroll: \$ 341,237,099 \$ 349,291  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 1,199,570  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 1,463,799  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 976,182  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 26,861 \$ 2024 \$ 20,165,452 \$ 35,783 \$ 2025 \$ 24,228,135 \$ 15,976 \$ 2026 \$ 24,228,135 \$ 15,976 \$ 2026 \$ 24,228,641 \$ 40,659 \$ 2027	◆ Changes in Proportion and Differences Between Employer		16,873,429			
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 36,710           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         48,500           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 85,210           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 129,672           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         14,549           Total Employer Pension Expense         \$ 111,155,119         \$ 144,221           Covered Payroll:         \$ 341,237,099         \$ 349,291           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,199,570           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 1,463,799           ◆ 1% increase in the discount rate: 8.25%         \$ 336,788,149         \$ 976,182           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ◆ 2023         \$ 7,993,114         \$ 26,861 <td>Total Deferred Outflows of Resources</td> <td>\$</td> <td>140,758,160</td> <td>\$</td> <td>202,179</td>	Total Deferred Outflows of Resources	\$	140,758,160	\$	202,179	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         48,500           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 85,210           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 129,672           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         • 14,549           Total Employer Pension Expense         \$ 111,155,119         \$ 144,221           Covered Payroll:         \$ 341,237,099         \$ 349,291           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate:         7.25%         \$ 1,028,277,936         \$ 1,199,570           • 1% decrease in the discount rate:         6.25%         \$ 1,254,776,125         \$ 1,463,799           • 1% increase in the discount rate:         8.25%         8 36,788,149         976,182           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           • 2023         \$ 7,993,114         \$ 26,861           • 2024         \$ 24,228,135         \$ 15,976           • 2026         \$ 42,288,641         \$ 40,659	Total Deferred Inflows of Resources:					
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         48,500           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 85,210           Employer Pension Expense:           ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 129,672           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - 14,549           Total Employer Pension Expense         \$ 111,155,119         \$ 144,221           Covered Payroll:         \$ 341,237,099         \$ 349,291           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ♦ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 1,199,570           ♦ 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 1,463,799           ♦ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 976,182           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ♦ 2023         \$ 7,993,114         \$ 26,861           ♦ 2024         \$ 20,165,452         \$ 35,783           ♦ 2025         \$ 42,228,641         \$ 40,659           ♦ 2027         \$ (2,258,546)	♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	36,710	
Contributions and Proportionate Share of Contributions           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 85,210           Employer Pension Expense:	♦ Changes of Assumptions		-		-	
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 129,672  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 144,221  Covered Payroll: \$ 341,237,099 \$ 349,291  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 1,199,570  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 1,463,799  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 976,182  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 26,861  ◆ 2024 \$ 20,165,452 \$ 35,783  ◆ 2025 \$ 24,228,135 \$ 15,976  ◆ 2026 \$ 42,28,135 \$ 15,976  ◆ 2026 \$ 42,288,641 \$ 40,659  ◆ 2027 \$ (2,258,546) \$ (2,310)			16,873,429		48,500	
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 144,221</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 349,291</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 1,199,570</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>\$ 1,463,799</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 976,182</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 2024</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>\$ 35,783</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>\$ 15,976</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 40,659</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (2,310)</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	85,210	
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>★ 111,155,119</li> <li>★ 144,221</li> <li>Covered Payroll:</li> <li>★ 341,237,099</li> <li>★ 349,291</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 1,199,570</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 1,463,799</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>★ 836,788,149</li> <li>♣ 976,182</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 7,993,114</li> <li>♦ 26,861</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ 35,783</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ 15,976</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♦ 40,659</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (2,310)</li> </ul>	Employer Pension Expense:					
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$\frac{111,155,119}{341,237,099}\$\$\frac{144,221}{349,291}\$\$  Covered Payroll: \$\frac{341,237,099}{349,291}\$\$\frac{349,291}{349,291}\$\$  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$\frac{1,028,277,936}{1,254,776,125}\$\$\frac{1,199,570}{1,463,799}\$\$\\ ◆ 1\% decrease in the discount rate: 6.25\% \$\frac{1,254,776,125}{1,463,799}\$\$\\ ◆ 1\% increase in the discount rate: 8.25\% \$\frac{836,788,149}{836,788,149}\$\$\\ ◆ 976,182\$\$  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ♦ 2023 \$\frac{7,993,114}{9,93,114}\$\$\\ ♦ 26,861\$\$\\ ♦ 2024 \$\frac{20165,452}{20165,452}\$\$\\ \$ 35,783\$\$\\ ♦ 2025 \$\frac{2026}{42,228,135}\$\$\\ ♦ 2026 \$\frac{2026}{42,288,641}\$\$\\ ♦ 40,659\$\$\\ ♦ 2027\$\$\$\\ \$ (2,258,546) \$\\ \$ (2,310)\$\$		\$	111,155,119	\$	129,672	
Covered Payroll:       \$ 341,237,099       \$ 349,291         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 1,199,570         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 1,463,799         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 976,182         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 26,861         ♦ 2024       \$ 20,165,452       \$ 35,783         ♦ 2025       \$ 24,228,135       \$ 15,976         ♦ 2026       \$ 42,288,641       \$ 40,659         ♦ 2027       \$ (2,258,546)       \$ (2,310)	Proportion and Differences Between Employer Contributions		-		14,549	
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 1,199,570         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 1,463,799         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 976,182         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 26,861         ♦ 2024       \$ 20,165,452       \$ 35,783         ♦ 2025       \$ 24,228,135       \$ 15,976         ♦ 2026       \$ 42,288,641       \$ 40,659         ♦ 2027       \$ (2,258,546)       \$ (2,310)	Total Employer Pension Expense	\$	111,155,119	\$	144,221	
◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 1,199,570         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 1,463,799         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 976,182         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 26,861         ◆ 2024       \$ 20,165,452       \$ 35,783         ◆ 2025       \$ 24,228,135       \$ 15,976         ◆ 2026       \$ 42,288,641       \$ 40,659         ◆ 2027       \$ (2,258,546)       \$ (2,310)	Covered Payroll:	\$	341,237,099	\$	349,291	
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 1,463,799</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 976,182</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 26,861</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 35,783</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 15,976</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 40,659</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (2,310)</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:			
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 976,182</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 26,861</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 35,783</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 15,976</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 40,659</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (2,310)</li> </ul>	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	1,199,570	
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 26,861         ♦ 2024       \$ 20,165,452       \$ 35,783         ♦ 2025       \$ 24,228,135       \$ 15,976         ♦ 2026       \$ 42,288,641       \$ 40,659         ♦ 2027       \$ (2,258,546)       \$ (2,310)				\$		
♦ 2023       \$ 7,993,114       \$ 26,861         ♦ 2024       \$ 20,165,452       \$ 35,783         ♦ 2025       \$ 24,228,135       \$ 15,976         ♦ 2026       \$ 42,288,641       \$ 40,659         ♦ 2027       \$ (2,258,546)       \$ (2,310)	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	976,182	
♦ 2024       \$ 20,165,452       \$ 35,783         ♦ 2025       \$ 24,228,135       \$ 15,976         ♦ 2026       \$ 42,288,641       \$ 40,659         ♦ 2027       \$ (2,258,546)       \$ (2,310)	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:	
♦ 2025       \$ 24,228,135       \$ 15,976         ♦ 2026       \$ 42,288,641       \$ 40,659         ♦ 2027       \$ (2,258,546)       \$ (2,310)		\$		\$	26,861	
♦ 2026       \$ 42,288,641       \$ 40,659         ♦ 2027       \$ (2,258,546)       \$ (2,310)						
<b>♦</b> 2027 \$ (2,258,546) \$ (2,310)						
· · · · ·						
• HELEGUEL 50 - 70 -	♦ 2027 ♦ Thereafter	\$	(2,238,346)	\$	(∠,310)	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Oxford-Rochdale Sewer District		
◆ Current Proportionate Share				0.057348%	
◆ Prior Proportionate Share				0.057009%	
Beginning Net Pension Liability	\$	842,013,303	\$	480,021	
Ending Net Pension Liability	\$	1,028,277,936	\$	589,693	
Total Deferred Outflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	-	\$	-	
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		39,796	
◆ Changes of Assumptions		54,491,085		31,249	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		16,820	
Total Deferred Outflows of Resources	\$	140,758,160	\$	87,865	
Total Deferred Inflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	18,046	
◆ Changes of Assumptions		-		-	
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		-	
Total Deferred Inflows of Resources	\$	48,341,364	\$	18,046	
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in	\$	111,155,119 -	\$	63,745 23,441	
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions					
Total Employer Pension Expense	\$	111,155,119	\$	87,186	
Covered Payroll:	\$	341,237,099	\$	-	
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	589,693	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	719,584	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	479,878	
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensior	Expense:	
◆ 2023	\$	7,993,114	\$	11,623	
◆ 2024	\$	20,165,452	\$	17,385	
♦ 2025	\$	24,228,135	\$	16,137	
♦ 2026	\$	42,288,641	\$	25,675	
♦ 2027	\$	(2,258,546)	\$	(1,001)	
♦ Thereafter	\$	-	\$	-	

	Wo	procester Regional		
Pension Amounts as of December 31, 2022		Retirement System		Paxton
◆ Current Proportionate Share		_		1.229414%
♦ Prior Proportionate Share				1.236297%
Beginning Net Pension Liability	\$	842,013,303	\$	10,409,788
Ending Net Pension Liability	\$	1,028,277,936	\$	12,641,797
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		853,135
♦ Changes of Assumptions		54,491,085		669,921
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		214,117
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,737,173
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	386,871
◆ Changes of Assumptions		- -		-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		165,524
Total Deferred Inflows of Resources	\$	48,341,364	\$	552,395
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,366,557
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		259,201
Total Employer Pension Expense	\$	111,155,119	\$	1,625,758
Covered Payroll:	\$	341,237,099	\$	3,696,886
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	12,641,797
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	15,426,398
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	10,287,594
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	160,816
♦ 2024	\$	20,165,452	\$	300,530
◆ 2025	\$	24,228,135	\$	258,487
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641 (2,258,546)	\$ \$	498,687 (33,742)
◆ 2027 ◆ Thereafter	\$	(2,230,340)	\$ \$	(33,142)
▼ Increated	Ψ	-	Ψ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Petersham
◆ Current Proportionate Share				0.251646%
◆ Prior Proportionate Share				0.250846%
Beginning Net Pension Liability	\$	842,013,303	\$	2,112,155
Ending Net Pension Liability	\$	1,028,277,936	\$	2,587,623
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		174,627
◆ Changes of Assumptions		54,491,085		137,125
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		5,941
Total Deferred Outflows of Resources	\$	140,758,160	\$	317,693
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	79,188
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		86,309
Total Deferred Inflows of Resources	\$	48,341,364	\$	165,497
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	279,718
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(37,686)
Total Employer Pension Expense	\$	111,155,119	\$	242,032
Covered Payroll:	\$	341,237,099	\$	576,818
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	2,587,623
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	3,157,598
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	2,105,746
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	(11,605)
◆ 2024	\$	20,165,452	\$	23,538
♦ 2025 2020	\$	24,228,135	\$	47,631
◆ 2026 ◆ 2027	\$	42,288,641	\$	97,619
◆ 2027     ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(4,987)
▼ ITIGIGATO	Ψ	-	Ψ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Phillipston
◆ Current Proportionate Share				0.201807%
◆ Prior Proportionate Share				0.203149%
Beginning Net Pension Liability	\$	842,013,303	\$	1,710,544
Ending Net Pension Liability	\$	1,028,277,936	\$	2,075,137
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		140,041
◆ Changes of Assumptions		54,491,085		109,967
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		8,001
Total Deferred Outflows of Resources	\$	140,758,160	\$	258,009
Total Deferred Inflows of Resources:		_		
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	63,505
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		130,846
Total Deferred Inflows of Resources	\$	48,341,364	\$	194,351
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	224,319
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(35,977)
Total Employer Pension Expense	\$	111,155,119	\$	188,342
Covered Payroll:	\$	341,237,099	\$	618,443
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	2,075,137
◆ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	2,532,226
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	1,688,697
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	(16,607)
◆ 2024	\$	20,165,452	\$	9,230
♦ 2025 - 2026	\$	24,228,135	\$	14,708
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641	\$	62,051 (5.734)
◆ 2027 ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(5,724)
• Incicallei	Φ	-	Φ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Princeton
◆ Current Proportionate Share				0.643725%
◆ Prior Proportionate Share				0.638271%
Beginning Net Pension Liability	\$	842,013,303	\$	5,374,329
Ending Net Pension Liability	\$	1,028,277,936	\$	6,619,286
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		446,705
◆ Changes of Assumptions		54,491,085		350,773
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		268,694
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,066,172
Total Deferred Inflows of Resources:				
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	202,567
<ul> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		97,432
Total Deferred Inflows of Resources	\$	48,341,364	\$	299,999
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	715,534
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Ť	-	Ť	(29,375)
Total Employer Pension Expense	\$	111,155,119	\$	686,159
Covered Payroll:	\$	341,237,099	\$	1,869,526
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	6,619,286
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	8,077,312
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	5,386,618
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	79,912
♦ 2024	\$	20,165,452	\$	157,159
♦ 2025	\$	24,228,135	\$	223,529
♦ 2026 • 2027	\$	42,288,641	\$	315,376
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(9,803)
▼ ITIGIGATO	Ψ	-	Ψ	-

• Current Proportionate Share         1.670421%           • Prior Proportionate Share         1.663404%           Beginning Net Pension Liability         \$ 842,013,303         \$ 14,006,083           Ending Net Pension Liability         \$ 1,028,277,936         \$ 17,176,574           Total Deferred Outflows of Resources:         • Differences Between Expected and Actual Experience         \$         • Net Differences Between Projected and Actual Experience         \$         • Net Difference Between Projected and Actual Experience         \$         • 1,159,166           • Changes of Assumptions         54,491,085         910,231         • Changes in Proportion and Differences Between Employer Contributions and Proportion and Share of Contributions         16,873,429         103,207           Total Deferred Inflows of Resources         \$ 140,758,160         \$ 2,172,604           Total Deferred Inflows of Resources         \$ 31,467,935         \$ 525,647           • Changes of Assumptions         •         •           • Changes of Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Englance         \$ 16,873,429         316,607           • Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,856,759           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportion and Differen	Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Qua	abbin Regional
Beginning Net Pension Liability         \$ 44,013,303         \$ 14,006,083           Ending Net Pension Liability         \$ 1,028,277,936         \$ 17,176,574           Total Deferred Outflows of Resources:	◆ Current Proportionate Share				1.670421%
Ending Net Pension Liability \$ 1,028,277,936 \$ 17,176,574  Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience \$	◆ Prior Proportionate Share				1.663404%
Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Net Differences Between Projected and Actual Investment Earnings on Pension Plan Investments  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Differences Between Expected and Actual Experience  ◆ Changes of Assumptions  ◆ Changes of Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Inflows of Resources  ◆ Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Deferred Inflows of Resources  ◆ Proportionate Share of Plan Pension Expense  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions  Total Employer Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions  Total Employer Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Total Employer Pension Expense  ◆ Proportion and Differences Between Employer Contributions  Total Employer Pension Expense  ◆ 111,155,119  ■ 1,715,602  Covered Payroll:  \$ 341,237,099  \$ 5,526,266  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7,25%  \$ 1,028,277,936  \$ 17,176,574  • 1% decrease in the discount rate: 8,25%  \$ 36,788,149  \$ 13,977,888  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized In Future Pension Expense:  • 2023  \$ 7,993,114  \$ 79,883  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized In Future Pension Expense:  • 2024  \$ 2025  \$ 24,228,641  \$ 670,502  \$ 2026  \$ 2027  \$ 2027  \$ 2026  \$ 2227	Beginning Net Pension Liability	\$	842,013,303	\$	14,006,083
◆ Net Differences Between Projected and Actual Experience         \$	Ending Net Pension Liability	\$	1,028,277,936	\$	17,176,574
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         1,159,166           € Changes of Assumptions         54,491,085         910,231           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         103,207           Total Deferred Outflows of Resources           ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 525,647           ♦ Changes of Assumptions         • • • • • • • • • • • • • • • • • • •	Total Deferred Outflows of Resources:				
Earnings on Pension Plan Investments         54,491,085         910,231           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         54,491,085         910,231           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 2,172,604           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 525,647           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 48,341,364         \$ 842,254           Employer Pension Expense:         * 111,155,119         \$ 1,856,759           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,715,602           Covered Payroll:         \$ 341,237,099         \$ 5,526,266           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 17,176,574         • 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 20,960,049         • 1% increase in the discount rate: 8.25%         \$ 1,254,776,125         \$ 20,960,049         • 1% increase in the discount rate: 8.25%         \$ 1,397,144	♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         103,207           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 2,172,604           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 525,647           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 48,341,364         \$ 842,254           Employer Pension Expense:         \$ 97000000000000000000000000000000000000			69,393,646		1,159,166
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         103,207           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 2,172,604           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 525,647           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 16,873,429         316,607           Employer Pension Expense:         \$ 48,341,364         \$ 842,254           Employer Pension Expense:         * 111,155,119         \$ 1,856,759           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         * 111,155,119         \$ 1,715,602           Total Employer Pension Expense         * 111,155,119         \$ 1,715,602           Covered Payroll:         * 341,237,099         \$ 5,526,266           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         * 1,028,277,936         \$ 17,176,574           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 20,960,049           • 1% increase in the discount rate: 8.25%         \$ 836,78	◆ Changes of Assumptions		54,491,085		910,231
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ 31,467,935 \$ 525,647  ◆ Changes of Assumptions	◆ Changes in Proportion and Differences Between Employer		16,873,429		103,207
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 525,647           ◆ Changes of Assumptions	Total Deferred Outflows of Resources	\$	140,758,160	\$	2,172,604
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         316,607           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 842,254           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,856,759           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - (141,157)           Total Employer Pension Expense         \$ 111,155,119         \$ 1,715,602           Covered Payroll:         \$ 341,237,099         \$ 5,526,266           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate:         7.25%         \$ 1,028,277,936         \$ 17,176,574           ◆ 1% decrease in the discount rate:         6.25%         \$ 1,254,776,125         \$ 20,960,049           ◆ 1% increase in the discount rate:         8.25%         \$ 836,788,149         \$ 13,977,888           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ◆ 2023         \$ 7,993,114         \$ 79,883           ◆ 2024         \$ 20,165,452         \$ 257,148           ◆ 2025         \$ 24,228,135         \$ 345,452	Total Deferred Inflows of Resources:				
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         316,607           Total Deferred Inflows of Resources         \$ 48,341,364         842,254           Employer Pension Expense:         Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,856,759           Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,715,602           Covered Payroll:         \$ 341,237,099         \$ 5,526,266           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 17,176,574         • 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 20,960,049         • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 13,977,888           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 79,883           • 2024         \$ 20,165,452         \$ 257,148           • 2025         \$ 42,288,641         \$ 670,502           • 2026         \$ 42,288,641         \$ 670,502           • 2027         \$ (2,258,546)         \$ (31,635)		\$	31,467,935	\$	525,647
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 1,856,759  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 1,715,602  Covered Payroll: \$ 341,237,099 \$ 5,526,266  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 17,176,574  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 20,960,049  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 13,977,888  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 79,883  ◆ 2024 \$ 20,165,452 \$ 257,148  ◆ 2025 \$ 24,228,135 \$ 354,452  ◆ 2026 \$ 42,288,641 \$ 670,502  ◆ 2027 \$ (2,258,546) \$ (31,635)	◆ Changes in Proportion and Differences Between Employer		16,873,429		316,607
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>★ 111,155,119</li> <li>★ 1,715,602</li> <li>Covered Payroll:</li> <li>★ 341,237,099</li> <li>★ 5,526,266</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>★ 1,028,277,936</li> <li>★ 17,176,574</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>★ 1,254,776,125</li> <li>★ 20,960,049</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>★ 836,788,149</li> <li>★ 13,977,888</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>★ 2023</li> <li>★ 20,165,452</li> <li>★ 257,148</li> <li>★ 2025</li> <li>★ 24,228,135</li> <li>★ 354,452</li> <li>★ 2026</li> <li>★ 42,288,641</li> <li>★ 670,502</li> <li>★ 2027</li> <li>★ 42,288,641</li> <li>★ 670,502</li> <li>★ 2027</li> <li>★ 2,258,546)</li> <li>★ (31,635)</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	842,254
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>★ 111,155,119</li> <li>★ 1,715,602</li> <li>Covered Payroll:</li> <li>★ 341,237,099</li> <li>★ 5,526,266</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>★ 1,028,277,936</li> <li>★ 17,176,574</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>★ 1,254,776,125</li> <li>★ 20,960,049</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>★ 836,788,149</li> <li>★ 13,977,888</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>★ 2023</li> <li>★ 20,165,452</li> <li>★ 257,148</li> <li>★ 2025</li> <li>★ 24,228,135</li> <li>★ 354,452</li> <li>★ 2026</li> <li>★ 42,288,641</li> <li>★ 670,502</li> <li>★ 2027</li> <li>★ 42,288,641</li> <li>★ 670,502</li> <li>★ 2027</li> <li>★ 2,258,546)</li> <li>★ (31,635)</li> </ul>	Employer Pension Expense:		_		
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$\frac{111,155,119}{341,237,099}\$\$\frac{5,526,266}{5,526,266}\$\$\$  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$\frac{1,028,277,936}{3,1254,776,125}\$\$\frac{17,176,574}{3,254,776,125}\$\$\frac{1}{2}\$\	◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,856,759
Covered Payroll:       \$ 341,237,099       \$ 5,526,266         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 17,176,574         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 20,960,049         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 13,977,888         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 79,883         ♦ 2024       \$ 20,165,452       \$ 257,148         ♦ 2025       \$ 24,228,135       \$ 354,452         ♦ 2026       \$ 42,288,641       \$ 670,502         ♦ 2027       \$ (2,258,546)       \$ (31,635)	Proportion and Differences Between Employer Contributions		-		(141,157)
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 17,176,574         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 20,960,049         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 13,977,888         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 79,883         ◆ 2024       \$ 20,165,452       \$ 257,148         ◆ 2025       \$ 24,228,135       \$ 354,452         ◆ 2026       \$ 42,288,641       \$ 670,502         ◆ 2027       \$ (2,258,546)       \$ (31,635)	Total Employer Pension Expense	\$	111,155,119	\$	1,715,602
◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 17,176,574         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 20,960,049         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 13,977,888         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 79,883         ◆ 2024       \$ 20,165,452       \$ 257,148         ◆ 2025       \$ 24,228,135       \$ 354,452         ◆ 2026       \$ 42,288,641       \$ 670,502         ◆ 2027       \$ (2,258,546)       \$ (31,635)	Covered Payroll:	\$	341,237,099	\$	5,526,266
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 20,960,049</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 13,977,888</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 79,883</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 257,148</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 354,452</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 670,502</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (31,635)</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	int Rat	e:		
♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 13,977,888         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 79,883         ♦ 2024       \$ 20,165,452       \$ 257,148         ♦ 2025       \$ 24,228,135       \$ 354,452         ♦ 2026       \$ 42,288,641       \$ 670,502         ♦ 2027       \$ (2,258,546)       \$ (31,635)	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 79,883         ♦ 2024       \$ 20,165,452       \$ 257,148         ♦ 2025       \$ 24,228,135       \$ 354,452         ♦ 2026       \$ 42,288,641       \$ 670,502         ♦ 2027       \$ (2,258,546)       \$ (31,635)					
♦ 2023       \$ 7,993,114       \$ 79,883         ♦ 2024       \$ 20,165,452       \$ 257,148         ♦ 2025       \$ 24,228,135       \$ 354,452         ♦ 2026       \$ 42,288,641       \$ 670,502         ♦ 2027       \$ (2,258,546)       \$ (31,635)	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	13,977,888
♦ 2024       \$ 20,165,452       \$ 257,148         ♦ 2025       \$ 24,228,135       \$ 354,452         ♦ 2026       \$ 42,288,641       \$ 670,502         ♦ 2027       \$ (2,258,546)       \$ (31,635)	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2025       \$ 24,228,135       \$ 354,452         ♦ 2026       \$ 42,288,641       \$ 670,502         ♦ 2027       \$ (2,258,546)       \$ (31,635)				\$	
♦ 2026       \$ 42,288,641       \$ 670,502         ♦ 2027       \$ (2,258,546)       \$ (31,635)					
<b>♦</b> 2027 \$ (2,258,546) \$ (31,635)					
▼ moroanor	◆ 2027 ◆ Thereafter	\$	(2,238,346)	\$	(31,033)

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Qua	boag Regional
◆ Current Proportionate Share				0.577635%
♦ Prior Proportionate Share				0.589417%
Beginning Net Pension Liability	\$	842,013,303	\$	4,962,970
Ending Net Pension Liability	\$	1,028,277,936	\$	5,939,689
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		400,842
◆ Changes of Assumptions		54,491,085		314,759
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		14,106
Total Deferred Outflows of Resources	\$	140,758,160	\$	729,707
Total Deferred Inflows of Resources:				
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	181,770 -
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		141,193
Total Deferred Inflows of Resources	\$	48,341,364	\$	322,963
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	642,070
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(37,126)
Total Employer Pension Expense	\$	111,155,119	\$	604,944
Covered Payroll:	\$	341,237,099	\$	2,727,474
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	5,939,689
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	7,248,021
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	4,833,578
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<ul><li>◆ 2023</li></ul>	\$	7,993,114	\$	17,170
◆ 2024	\$	20,165,452	\$	88,659
♦ 2025	\$	24,228,135	\$	106,892
♦ 2026 • 2027	\$	42,288,641	\$	217,301
♦ 2027 ♦ Thereafter	\$	(2,258,546)	\$	(23,278)
• Herealter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Royalston
◆ Current Proportionate Share				0.091338%
◆ Prior Proportionate Share				0.089093%
Beginning Net Pension Liability	\$	842,013,303	\$	750,172
Ending Net Pension Liability	\$	1,028,277,936	\$	939,204
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		63,382
◆ Changes of Assumptions		54,491,085		49,771
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		28,302
Total Deferred Outflows of Resources	\$	140,758,160	\$	141,455
Total Deferred Inflows of Resources:		_		
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	28,742
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		35,870
Total Deferred Inflows of Resources	\$	48,341,364	\$	64,612
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	101,526
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		-		(12,008)
Total Employer Pension Expense	\$	111,155,119	\$	89,518
Covered Payroll:	\$	341,237,099	\$	156,599
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	939,204
◆ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	1,146,082
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	764,302
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
<ul><li>◆ 2023</li></ul>	\$	7,993,114	\$	4,128
◆ 2024	\$	20,165,452	\$	15,019
<ul><li>◆ 2025</li><li>◆ 2026</li></ul>	\$ \$	24,228,135 42,288,641	\$	20,954 36,854
◆ 2026 ◆ 2027	\$	(2,258,546)	\$ \$	(112)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Rutland
◆ Current Proportionate Share				1.045744%
◆ Prior Proportionate Share				1.049371%
Beginning Net Pension Liability	\$	842,013,303	\$	8,835,840
Ending Net Pension Liability	\$	1,028,277,936	\$	10,753,157
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		725,680
◆ Changes of Assumptions		54,491,085		569,837
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		223,564
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,519,081
Total Deferred Inflows of Resources:				
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	329,074
<ul> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		37,256
Total Deferred Inflows of Resources	\$	48,341,364	\$	366,330
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,162,398
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		179,972
Total Employer Pension Expense	\$	111,155,119	\$	1,342,370
Covered Payroll:	\$	341,237,099	\$	4,744,229
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	10,753,157
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	13,121,749
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	8,750,664
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	139,024
♦ 2024	\$	20,165,452	\$	270,091
♦ 2025	\$	24,228,135	\$	297,722
♦ 2026 • 2027	\$	42,288,641	\$	472,683
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(26,769)
▼ ITIGIGATO	Ψ	<del>-</del>	Ψ	<del>-</del>

	Wo	rcester Regional Retirement		
Pension Amounts as of December 31, 2022		System		Southboro
◆ Current Proportionate Share				3.146388%
◆ Prior Proportionate Share				3.139476%
Beginning Net Pension Liability	\$	842,013,303	\$	26,434,803
Ending Net Pension Liability	\$	1,028,277,936	\$	32,353,613
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		2,183,393
◆ Changes of Assumptions		54,491,085		1,714,501
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		163,382
Total Deferred Outflows of Resources	\$	140,758,160	\$	4,061,276
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	990,103
◆ Changes of Assumptions	Ψ	-	Ψ	-
◆ Changes in Proportion and Differences Between Employer		16,873,429		511,190
Contributions and Proportionate Share of Contributions		10,010,120		311,100
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,501,293
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	3,497,371
◆ Net Amortization of Deferred Amounts from Changes in		-		(35,047)
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	111,155,119	\$	3,462,324
Covered Payroll:	\$	341,237,099	\$	10,715,927
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	32,353,613
◆ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	39,480,124
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	26,328,601
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	182,323
♦ 2024	\$	20,165,452	\$	552,375
♦ 2025	\$	24,228,135	\$	646,283
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641	\$	1,244,061
◆ 2027 ◆ Thereafter	\$	(2,258,546)	\$ \$	(65,059)
▼ Introducti	Ψ	-	Ψ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Southboro Housing Authority		
◆ Current Proportionate Share				0.040752%	
◆ Prior Proportionate Share				0.041683%	
Beginning Net Pension Liability	\$	842,013,303	\$	350,974	
Ending Net Pension Liability	\$	1,028,277,936	\$	419,041	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		28,279	
◆ Changes of Assumptions		54,491,085		22,206	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		100,442	
Total Deferred Outflows of Resources	\$	140,758,160	\$	150,927	
Total Deferred Inflows of Resources:					
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	12,824	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		15,700	
Total Deferred Inflows of Resources	\$	48,341,364	\$	28,524	
Employer Pension Expense:					
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	45,298	
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		20,652	
Total Employer Pension Expense	\$	111,155,119	\$	65,950	
Covered Payroll:	\$	341,237,099	\$	61,504	
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	419,041	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	511,343	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	341,006	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensior	Expense:	
◆ 2023	\$	7,993,114	\$	24,321	
♦ 2024	\$	20,165,452	\$	31,056	
♦ 2025	\$	24,228,135	\$	33,824	
♦ 2026	\$	42,288,641	\$	34,930	
♦ 2027	\$	(2,258,546)	\$	(1,728)	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Spencer
◆ Current Proportionate Share				1.479057%
◆ Prior Proportionate Share				1.477885%
Beginning Net Pension Liability	\$	842,013,303	\$	12,443,989
Ending Net Pension Liability	\$	1,028,277,936	\$	15,208,819
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		1,026,372
♦ Changes of Assumptions		54,491,085		805,954
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		175,577
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,007,903
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience  • Changes of Assumptions	\$	31,467,935	\$	465,429
<ul> <li>◆ Changes of Assumptions</li> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		- 159,175
Total Deferred Inflows of Resources	\$	48,341,364	\$	624,604
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119	\$	1,644,048 45,798
Total Employer Pension Expense	\$	111,155,119	\$	1,689,846
Covered Payroll:	\$	341,237,099	\$	3,955,679
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	15,208,819
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	18,558,857
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	12,376,575
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	83,597
◆ 2024	\$	20,165,452	\$	273,937
♦ 2025	\$	24,228,135	\$	404,113
♦ 2026	\$	42,288,641	\$	654,038
◆ 2027	\$	(2,258,546)	\$	(32,386)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		pencer-East kfield Regional
◆ Current Proportionate Share				0.962607%
◆ Prior Proportionate Share				0.966733%
Beginning Net Pension Liability	\$	842,013,303	\$	8,140,017
Ending Net Pension Liability	\$	1,028,277,936	\$	9,898,280
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		667,988
◆ Changes of Assumptions		54,491,085		524,535
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		1,277
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,193,800
Total Deferred Inflows of Resources:				
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935 -	\$	302,913 -
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		295,845
Total Deferred Inflows of Resources	\$	48,341,364	\$	598,758
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,069,987
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(102,909)
Total Employer Pension Expense	\$	111,155,119	\$	967,078
Covered Payroll:	\$	341,237,099	\$	3,291,529
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	9,898,280
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	12,078,569
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	8,054,985
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
<ul><li>◆ 2023</li></ul>	\$	7,993,114	\$	(29,734)
◆ 2024	\$	20,165,452	\$	95,295
◆ 2025 • 2026	\$	24,228,135	\$	183,353
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641 (2,258,546)	\$ \$	371,449 (25,321)
◆ Thereafter	\$	(2,200,040)	\$	- (20,021)

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Spencer Housing Authority		
◆ Current Proportionate Share				0.083696%	
◆ Prior Proportionate Share				0.082578%	
Beginning Net Pension Liability	\$	842,013,303	\$	695,322	
Ending Net Pension Liability	\$	1,028,277,936	\$	860,631	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		58,080	
♦ Changes of Assumptions		54,491,085		45,607	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		59,295	
Total Deferred Outflows of Resources	\$	140,758,160	\$	162,982	
Total Deferred Inflows of Resources:					
<ul><li>◆ Differences Between Expected and Actual Experience</li><li>◆ Changes of Assumptions</li></ul>	\$	31,467,935 -	\$	26,338	
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		-	
Total Deferred Inflows of Resources	\$	48,341,364	\$	26,338	
Employer Pension Expense:					
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	93,033	
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		14,549	
Total Employer Pension Expense	\$	111,155,119	\$	107,582	
Covered Payroll:	\$	341,237,099	\$	310,919	
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	860,631	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	1,050,202	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	700,361	
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pensior	Expense:	
<b>♦</b> 2023	\$	7,993,114	\$	26,758	
◆ 2024	\$	20,165,452	\$	34,802	
♦ 2025	\$	24,228,135	\$	32,358	
♦ 2026	\$	42,288,641	\$	43,646	
◆ 2027	\$	(2,258,546)	\$	(920)	
◆ Thereafter	\$	-	\$	-	

• Current Proportionate Share         1.6996441%           • Prior Proportionate Share         1.699069%           Beginning Net Pension Liability         \$ 842,013,303         \$ 14,306,387           Ending Net Pension Liability         \$ 1,028,277,936         \$ 17,444,124           Total Deferred Outflows of Resources:         • Differences Between Expected and Actual Experience         \$         • Net Differences Between Projected and Actual Investment         69,393,646         1,177,222           Earnings on Pension Plan Investments         • Changes of Assumptions         54,491,085         924,409           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         292,212           Total Deferred Inflows of Resources:         • 140,758,160         \$ 2,393,843           • Changes of Assumptions         •	Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Sterling
Engining Net Pension Liability	◆ Current Proportionate Share				1.696441%
Ending Net Pension Liability	◆ Prior Proportionate Share				1.699069%
Total Deferred Outflows of Resources:           ♦ Differences Between Expected and Actual Experience         \$ \$           ♦ Net Differences Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         1,177,222           Earnings on Pension Plan Investments         54,491,085         924,409           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         292,212           Total Deferred Outflows of Resources:           ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 533,835           ♦ Changes of Assumptions             ♦ Changes of Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions            Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,043,939           Employer Pension Expense:         \$ 111,155,119         \$ 1,885,680           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,949,941           Covered Payroll:         \$ 341,237,099         \$ 5,487,627           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • 1,028,277,936         \$ 17,444,124	Beginning Net Pension Liability	\$	842,013,303	\$	14,306,387
◆ Differences Between Expected and Actual Experience         \$         \$         1,177,222           • Net Difference Between Projected and Actual Investments         69,393,646         1,177,222           • Changes on Pension Plan Investments         54,491,085         924,409           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         292,212           Total Deferred Outflows of Resources         \$         140,758,160         \$         2,393,843           Total Deferred Inflows of Resources         \$         140,758,160         \$         2,393,843           * Object on Contributions of Resources         *         31,467,935         \$         533,835           • Changes of Assumptions <td< th=""><th>Ending Net Pension Liability</th><th>\$</th><th>1,028,277,936</th><th>\$</th><th>17,444,124</th></td<>	Ending Net Pension Liability	\$	1,028,277,936	\$	17,444,124
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments         69,393,646         1,177,222           Earnings on Pension Plan Investments         54,491,085         924,409           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         292,212           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 2,393,843           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 533,835           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         510,104           Employer Pension Expense:         \$ 48,341,364         \$ 1,043,939           ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,885,680           ♦ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,949,941           Covered Payroll:         \$ 341,237,099         \$ 5,487,627           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           • Current discount rate: 7,25%         \$ 1,028,277,936         \$ 17,444,124           • 1% decrease in the discount rate: 8,25%         \$ 336,7	Total Deferred Outflows of Resources:				
Earnings on Pension Plan Investments         54,491,085         924,409           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         292,212           Total Deferred Outflows of Resources         140,758,160         \$2,393,843           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$31,467,935         \$533,835           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         48,341,364         \$1,043,939           Employer Pension Expense:         * 111,155,119         \$1,885,680           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions and Proportionate Share of Contributions         \$111,155,119         \$1,949,941           Covered Payroll:         \$341,237,099         \$5,487,627           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         * 1,028,277,936         \$17,444,124           • (urrent discount rate: 7.25%         \$1,028,277,936         \$17,444,124           • (urrent discount rate: 6.25%         \$1,254,776,125         \$21,286,531           • 1% dorease in the discount rate: 6.25%         \$1,254,776,125	♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         292,212           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 2,393,843           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 533,835           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         510,104           Employer Pension Expense:         \$ 48,341,364         \$ 1,043,939           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,885,680           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,949,941           Covered Payroll:         \$ 341,237,099         \$ 5,487,627           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         Current discount rate: 7.25%         \$ 1,028,277,936         \$ 17,444,124           • 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 17,444,124           • 1% increase in the discount rate: 8.25%         \$ 36,788,149         \$ 14,195,613           Defe			69,393,646		1,177,222
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         292,212           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 2,393,843           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 533,835           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         510,104           Employer Pension Expense:         \$ 48,341,364         \$ 1,043,939           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,885,680           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,949,941           Covered Payroll:         \$ 341,237,099         \$ 5,487,627           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         Current discount rate: 7.25%         \$ 1,028,277,936         \$ 17,444,124           • 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 17,444,124           • 1% increase in the discount rate: 8.25%         \$ 36,788,149         \$ 14,195,613           Defe	◆ Changes of Assumptions		54,491,085		924,409
Total Deferred Inflows of Resources:         ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 533,835           ♦ Changes of Assumptions         • 16,873,429         \$ 510,104           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         \$ 510,104           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,043,939           Employer Pension Expense:           ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,885,680           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         • 64,261           Total Employer Pension Expense         \$ 111,155,119         \$ 1,949,941           Covered Payroll:         \$ 341,237,099         \$ 5,487,627           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 17,444,124           • 1% increase in the discount rate: 8.25%         \$ 1,028,277,936         \$ 17,444,124           • 1% increase in the discount rate: 8.25%         \$ 336,788,149         \$ 14,195,613           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           • 2	◆ Changes in Proportion and Differences Between Employer		16,873,429		292,212
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 533,835           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         510,104           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,043,939           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,885,680           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         64,261           Total Employer Pension Expense         \$ 111,155,119         \$ 1,949,941           Covered Payroll:         \$ 341,237,099         \$ 5,487,627           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         •           ◆ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 17,444,124           ◆ 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 17,444,124           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 14,195,613           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 152,369 <tr< td=""><td>Total Deferred Outflows of Resources</td><td>\$</td><td>140,758,160</td><td>\$</td><td>2,393,843</td></tr<>	Total Deferred Outflows of Resources	\$	140,758,160	\$	2,393,843
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         510,104           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,043,939           Employer Pension Expense:           ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,885,680           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,949,941           Covered Payroll:         \$ 341,237,099         \$ 5,487,627           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ♦ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 17,444,124           ♦ 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 21,286,531           ♦ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 14,195,613           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ♦ 2023         \$ 7,993,114         \$ 152,369           ♦ 2024         \$ 20,165,452         \$ 338,825           ♦ 2025         \$ 42,228,135         \$ 276,040           ♦ 2026         \$ 42,288,641         \$ 623,266	Total Deferred Inflows of Resources:				
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         510,104           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,043,939           Employer Pension Expense:         ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,885,680           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - 64,261         - 64,261           Total Employer Pension Expense         \$ 111,155,119         \$ 1,949,941           Covered Payroll:         \$ 341,237,099         \$ 5,487,627           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 17,444,124         • 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 21,286,531         • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 14,195,613           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 152,369         • 2024         \$ 20,165,452         \$ 338,825         • 2025         \$ 24,228,135         \$ 276,040         • 2026         \$ 42,288,641         • 623,266	♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	533,835
Contributions and Proportionate Share of Contributions           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,043,939           Employer Pension Expense:	♦ Changes of Assumptions		-		-
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 1,885,680  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 1,949,941  Covered Payroll: \$ 341,237,099 \$ 5,487,627  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 17,444,124  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 21,286,531  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 14,195,613  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 152,369  ◆ 2024 \$ 20,165,452 \$ 338,825  ◆ 2025 \$ 24,228,135 \$ 276,040  ◆ 2026 \$ 24,228,135 \$ 276,040  ◆ 2026 \$ 42,288,641 \$ 623,266			16,873,429		510,104
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 1,949,941</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 5,487,627</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>\$ 1,028,277,936</li> <li>\$ 17,444,124</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 21,286,531</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 14,195,613</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>\$ 338,825</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>\$ 276,040</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 623,266</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	1,043,939
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         Total Employer Pension Expense</li></ul>		\$	111,155,119	\$	1,885,680
Covered Payroll:       \$ 341,237,099       \$ 5,487,627         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 17,444,124         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 21,286,531         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 14,195,613         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 152,369         ◆ 2024       \$ 20,165,452       \$ 338,825         ◆ 2025       \$ 24,228,135       \$ 276,040         ◆ 2026       \$ 42,288,641       \$ 623,266	◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions		-		64,261
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 17,444,124         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 21,286,531         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 14,195,613         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 152,369         ♦ 2024       \$ 20,165,452       \$ 338,825         ♦ 2025       \$ 24,228,135       \$ 276,040         ♦ 2026       \$ 42,288,641       \$ 623,266	Total Employer Pension Expense	\$	111,155,119	\$	1,949,941
♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 17,444,124         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 21,286,531         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 14,195,613         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 152,369         ♦ 2024       \$ 20,165,452       \$ 338,825         ♦ 2025       \$ 24,228,135       \$ 276,040         ♦ 2026       \$ 42,288,641       \$ 623,266	Covered Payroll:	\$	341,237,099	\$	5,487,627
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 21,286,531</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 14,195,613</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 152,369</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 338,825</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 276,040</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 623,266</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 14,195,613         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 152,369         ♦ 2024       \$ 20,165,452       \$ 338,825         ♦ 2025       \$ 24,228,135       \$ 276,040         ♦ 2026       \$ 42,288,641       \$ 623,266	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	17,444,124
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 152,369         ♦ 2024       \$ 20,165,452       \$ 338,825         ♦ 2025       \$ 24,228,135       \$ 276,040         ♦ 2026       \$ 42,288,641       \$ 623,266					
♦ 2023       \$ 7,993,114       \$ 152,369         ♦ 2024       \$ 20,165,452       \$ 338,825         ♦ 2025       \$ 24,228,135       \$ 276,040         ♦ 2026       \$ 42,288,641       \$ 623,266	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	14,195,613
♦ 2024       \$ 20,165,452       \$ 338,825         ♦ 2025       \$ 24,228,135       \$ 276,040         ♦ 2026       \$ 42,288,641       \$ 623,266	Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
♦ 2025       \$ 24,228,135       \$ 276,040         ♦ 2026       \$ 42,288,641       \$ 623,266				\$	•
<b>♦</b> 2026 \$ 42,288,641 \$ 623,266					
Ψ 2021 Ψ (2,200,040) Φ (40.090)					
◆ Thereafter \$ - \$ -			(2,230,340)		(40,390)

Pension Amounts as of December 31, 2022	Wo	rcester Regional Retirement System	Sterling Housing Authority		
◆ Current Proportionate Share				0.015360%	
♦ Prior Proportionate Share				0.015481%	
Beginning Net Pension Liability	\$	842,013,303	\$	130,356	
Ending Net Pension Liability	\$	1,028,277,936	\$	157,942	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		10,659	
♦ Changes of Assumptions		54,491,085		8,370	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		37,677	
Total Deferred Outflows of Resources	\$	140,758,160	\$	56,706	
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Changes of Assumptions	\$	31,467,935	\$	4,833	
<ul> <li>♦ Changes of Assumptions</li> <li>♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		19,101	
Total Deferred Inflows of Resources	\$	48,341,364	\$	23,934	
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	17,073 739	
Total Employer Pension Expense	\$	111,155,119	\$	17,812	
Covered Payroll:	\$	341,237,099	\$	58,528	
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	157,942	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	192,732	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	128,529	
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pension	Expense:	
<b>♦</b> 2023	\$	7,993,114	\$	1,311	
◆ 2024	\$	20,165,452	\$	5,008	
♦ 2025	\$	24,228,135	\$	13,667	
♦ 2026	\$	42,288,641	\$	13,239	
♦ 2027	\$	(2,258,546)	\$	(453)	
♦ Thereafter	\$	-	\$	-	

• Current Proportionate Share         2.245354%           • Prior Proportionate Share         2.264910%           Beginning Net Pension Liability         \$ 842,013,303         \$ 19,070,840           Ending Net Pension Liability         \$ 1,028,277,936         \$ 23,088,479           Total Deferred Outflows of Resources:           • Differences Between Expected and Actual Experience         \$         \$           • Net Difference Between Expected and Actual Investment Earnings on Pension Plan Investments         69,393,646         1,558,133           • Changes of Assumptions         54,491,085         1,223,518           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         190,520           Total Deferred Inflows of Resources           • Differences Between Expected and Actual Experience         \$ 31,467,935         706,567           • Changes in Proportion and Differences Between Employer         16,873,429         352,651           Total Deferred Inflows of Resources           • Differences Between Expected and Actual Experience         \$ 31,467,935         706,567           • Changes in Proportion and Differences Between Employer         16,873,429         352,651           Total Deferred Inflows of Resources         \$ 111,155,119         \$ 2,495,8	Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Sturbridge
Beginning Net Pension Liability         \$ 842,013,303         \$ 19,070,840           Ending Net Pension Liability         \$ 1,028,277,936         \$ 23,088,479           Total Deferred Outflows of Resources:	◆ Current Proportionate Share				2.245354%
Ending Net Pension Liability	◆ Prior Proportionate Share				2.264910%
Total Deferred Outflows of Resources:	Beginning Net Pension Liability	\$	842,013,303	\$	19,070,840
◆ Net Differences Between Projected and Actual Experience         \$         \$         1,558,133           Earnings on Pension Plan Investments         69,393,646         1,558,133           Earnings on Pension Plan Investments         54,491,085         1,223,518           Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         190,520           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 2,972,171           Total Deferred Inflows of Resources:         • Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 706,567           • Changes of Assumptions         • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         352,651           Contributions and Proportionate Share of Contributions         \$ 48,341,364         \$ 1,059,218           Employer Pension Expense:         • Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,495,826           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 341,237,099         \$ 8,964,171           Covered Payroll:         \$ 341,237,099         \$ 8,964,171           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:	Ending Net Pension Liability	\$	1,028,277,936	\$	23,088,479
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments         6.9,393,646         1,558,133           € Changes of Assumptions         54,491,085         1,223,518           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         190,520           Total Deferred Outflows of Resources           ♦ Differences Between Expected and Actual Experience         \$ 31,467,935         706,567           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         352,651           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,059,218           Employer Pension Expense:         • Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,495,826           • Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 2,597,378           Covered Payroll:         \$ 341,237,099         \$ 8,964,171           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • (207,7936         \$ 23,088,479           • (207 the Net Pension Liability to Changes in the Discount Rate:         • (207,7936         \$ 23,088,479           • (2024         \$ 20,66,783,149         \$ 18,788,856	Total Deferred Outflows of Resources:				
Earnings on Pension Plan Investments         54,491,085         1,223,518           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         190,520           Total Deferred Outflows of Resources         140,758,160         \$2,972,171           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$31,467,935         \$706,567           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         352,651           Employer Pension Expense:         \$48,341,364         \$1,059,218           Proportionate Share of Plan Pension Expense         \$111,155,119         \$2,495,826           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$341,237,099         \$2,537,378           Covered Payroll:         \$341,237,099         \$9,941,71         \$2,537,378           Covered Payroll:         \$1,028,277,936         \$23,088,479           • 1% decrease in the discount rate: 6.25%         \$1,028,277,936         \$23,088,479           • 1% decrease in the discount rate: 8.25%         \$1,028,277,936         \$23,088,479 <th< td=""><td>♦ Differences Between Expected and Actual Experience</td><td>\$</td><td>-</td><td>\$</td><td>-</td></th<>	♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         190,520           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 2,972,171           Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 706,567           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         352,651           Employer Pension Expense:         \$ 48,341,364         \$ 1,059,218           Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,495,826           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 2,537,378           Covered Payroll:         \$ 341,237,099         \$ 8,964,171           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         Current discount rate: 7.25%         \$ 1,028,277,936         \$ 23,088,479           ◆ 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 23,088,479           ◆ 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 23,088,479           ◆ 1% increase			69,393,646		1,558,133
Contributions and Proportionate Share of Contributions         \$ 140,758,160         \$ 2,972,171           Total Deferred Outflows of Resources:         • Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 706,567           • Changes of Assumptions         • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         352,651           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,059,218           Employer Pension Expense:         • Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,495,826           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         • 111,155,119         \$ 2,537,378           Covered Payroll:         \$ 341,237,099         \$ 8,964,171           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 23,088,479           • 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 23,088,479           • 1% increase in the discount rate: 8.25%         \$ 336,788,149         \$ 18,788,856           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 88,281           • 2023         \$ 7,9	◆ Changes of Assumptions		54,491,085		1,223,518
Total Deferred Inflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 706,567           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         352,651           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,059,218           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,495,826           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         41,552           Total Employer Pension Expense         \$ 111,155,119         \$ 2,537,378           Covered Payroll:         \$ 341,237,099         \$ 8,964,171           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 23,088,479           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 28,174,165           ◆ 1% increase in the discount rate: 8.25%         \$ 336,788,149         \$ 18,788,856           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: <td>◆ Changes in Proportion and Differences Between Employer</td> <td></td> <td></td> <td></td> <td></td>	◆ Changes in Proportion and Differences Between Employer				
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 706,567           ◆ Changes of Assumptions         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         352,651           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,059,218           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,495,826           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         -         41,552           Total Employer Pension Expense         \$ 111,155,119         \$ 2,537,378           Covered Payroll:         \$ 341,237,099         \$ 8,964,171           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         •           • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 23,088,479           • 1% decrease in the discount rate: 8.25%         \$ 1,028,277,936         \$ 23,088,479           • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 18,788,856           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 88,281	Total Deferred Outflows of Resources	\$	140,758,160	\$	2,972,171
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         352,651           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,059,218           Employer Pension Expense:           ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,495,826           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 2,537,378           Covered Payroll:         \$ 341,237,099         \$ 8,964,171           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ♦ Current discount rate: 7.25%         \$ 1,028,277,936         \$ 23,088,479           ♦ 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 28,174,165           ♦ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 18,788,856           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ♦ 2023         \$ 7,993,114         \$ 88,281           ♦ 2024         \$ 20,165,452         \$ 396,040           ♦ 2025         \$ 24,228,135         \$ 542,377           ♦ 2026         \$ 42,288,641         953,952	Total Deferred Inflows of Resources:				
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         352,651           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,059,218           Employer Pension Expense:         ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 2,495,826           ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - 41,552           Total Employer Pension Expense         \$ 111,155,119         \$ 2,537,378           Covered Payroll:         \$ 341,237,099         \$ 8,964,171           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         • Current discount rate: 7.25%         \$ 1,028,277,936         \$ 23,088,479         • 1% decrease in the discount rate: 8.25%         \$ 1,254,776,125         \$ 28,174,165         • 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 18,788,856           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         • 2023         \$ 7,993,114         \$ 88,281         • 2024         \$ 20,165,452         \$ 396,040         • 2025         \$ 24,228,135         \$ 542,377         • 2026         \$ 42,288,641         \$ 953,952	◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	706,567
Contributions and Proportionate Share of Contributions           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 1,059,218           Employer Pension Expense:	♦ Changes of Assumptions		-		-
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 2,495,826  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 2,537,378  Covered Payroll: \$ 341,237,099 \$ 8,964,171  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 23,088,479  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 28,174,165  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 18,788,856  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 88,281  ◆ 2024 \$ 20,165,452 \$ 396,040  ◆ 2025 \$ 24,228,135 \$ 542,377  ◆ 2026 \$ 42,288,641 \$ 953,952			16,873,429		352,651
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 2,537,378</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 8,964,171</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 23,088,479</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 28,174,165</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>♦ 836,788,149</li> <li>♦ 18,788,856</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 7,993,114</li> <li>♦ 88,281</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>\$ 396,040</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>\$ 542,377</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 953,952</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	1,059,218
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>\$ 111,155,119</li> <li>\$ 2,537,378</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 8,964,171</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 23,088,479</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 28,174,165</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>♦ 836,788,149</li> <li>▶ 18,788,856</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 7,993,114</li> <li>♦ 88,281</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♦ 396,040</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ 542,377</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 953,952</li> </ul>	Employer Pension Expense:				
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$\frac{111,155,119}{341,237,099}\$\$\$\frac{2,537,378}{8,964,171}\$\$\$\$Covered Payroll: \$\frac{341,237,099}{341,237,099}\$\$\$\frac{8,964,171}{8,964,171}\$\$\$\$Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ♦ Current discount rate: 7.25% \$\frac{1,028,277,936}{341,254,776,125}\$\$\$\frac{23,088,479}{341,465}\$\$\$\frac{1,254,776,125}{	◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	2,495,826
Covered Payroll:       \$ 341,237,099       \$ 8,964,171         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 23,088,479         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 28,174,165         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 18,788,856         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 88,281         ◆ 2024       \$ 20,165,452       \$ 396,040         ◆ 2025       \$ 24,228,135       \$ 542,377         ◆ 2026       \$ 42,288,641       \$ 953,952	Proportion and Differences Between Employer Contributions		-		41,552
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 23,088,479         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 28,174,165         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 18,788,856         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 88,281         ◆ 2024       \$ 20,165,452       \$ 396,040         ◆ 2025       \$ 24,228,135       \$ 542,377         ◆ 2026       \$ 42,288,641       \$ 953,952	Total Employer Pension Expense	\$	111,155,119	\$	2,537,378
♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 23,088,479         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 28,174,165         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 18,788,856         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 88,281         ♦ 2024       \$ 20,165,452       \$ 396,040         ♦ 2025       \$ 24,228,135       \$ 542,377         ♦ 2026       \$ 42,288,641       \$ 953,952	Covered Payroll:	\$	341,237,099	\$	8,964,171
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 28,174,165</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 18,788,856</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 88,281</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 396,040</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 542,377</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 953,952</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 18,788,856         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 88,281         ♦ 2024       \$ 20,165,452       \$ 396,040         ♦ 2025       \$ 24,228,135       \$ 542,377         ♦ 2026       \$ 42,288,641       \$ 953,952					
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 88,281         ♦ 2024       \$ 20,165,452       \$ 396,040         ♦ 2025       \$ 24,228,135       \$ 542,377         ♦ 2026       \$ 42,288,641       \$ 953,952					
♦ 2023       \$ 7,993,114       \$ 88,281         ♦ 2024       \$ 20,165,452       \$ 396,040         ♦ 2025       \$ 24,228,135       \$ 542,377         ♦ 2026       \$ 42,288,641       \$ 953,952	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	18,788,856
♦ 2024       \$ 20,165,452       \$ 396,040         ♦ 2025       \$ 24,228,135       \$ 542,377         ♦ 2026       \$ 42,288,641       \$ 953,952	Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
♦ 2025       \$ 24,228,135       \$ 542,377         ♦ 2026       \$ 42,288,641       \$ 953,952				\$	88,281
<b>♦</b> 2026 \$ 42,288,641 \$ 953,952					
<b>♦</b> 2027 \$ (2,258,546) \$ (67,697)					
◆ 2027 \$ (2,238,340) \$ (07,697)  ◆ Thereafter \$ - \$ -			(2,230,340)		(07,097)

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Sutton
◆ Current Proportionate Share				1.923968%
◆ Prior Proportionate Share				1.919406%
Beginning Net Pension Liability	\$	842,013,303	\$	16,161,656
Ending Net Pension Liability	\$	1,028,277,936	\$	19,783,737
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		1,335,111
◆ Changes of Assumptions		54,491,085		1,048,391
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		151,806
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,535,308
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	605,433
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		203,693
Total Deferred Inflows of Resources	\$	48,341,364	\$	809,126
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	2,138,589
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		-		38,186
Total Employer Pension Expense	\$	111,155,119	\$	2,176,775
Covered Payroll:	\$	341,237,099	\$	7,529,401
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	19,783,737
◆ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	24,141,489
◆ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	16,099,535
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
<ul><li>◆ 2023</li></ul>	\$	7,993,114	\$	166,947
◆ 2024	\$	20,165,452	\$	388,434
◆ 2025 • 2026	\$	24,228,135	\$	428,185
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641 (2,258,546)	\$ \$	782,112 (39,496)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Tant	asqua Regional
◆ Current Proportionate Share				1.128098%
◆ Prior Proportionate Share				1.107841%
Beginning Net Pension Liability	\$	842,013,303	\$	9,328,169
Ending Net Pension Liability	\$	1,028,277,936	\$	11,599,979
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		782,828
◆ Changes of Assumptions		54,491,085		614,713
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		313,177
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,710,718
Total Deferred Inflows of Resources:			'	
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	354,989
◆ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		433,537
Total Deferred Inflows of Resources	\$	48,341,364	\$	788,526
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,253,938
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		6,672
Total Employer Pension Expense	\$	111,155,119	\$	1,260,610
Covered Payroll:	\$	341,237,099	\$	4,757,757
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	11,599,979
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	14,155,100
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	9,439,787
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	77,329
<ul><li>◆ 2024</li></ul>	\$	20,165,452	\$	213,725
◆ 2025	\$	24,228,135	\$	210,417
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641	\$	428,611
◆ 2027 ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(7,890)
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Pension Amounts as of December 31, 2022	Wo	rcester Regional Retirement System		Templeton
◆ Current Proportionate Share				1.309811%
◆ Prior Proportionate Share				1.304400%
Beginning Net Pension Liability	\$	842,013,303	\$	10,983,225
Ending Net Pension Liability	\$	1,028,277,936	\$	13,468,498
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		908,926
◆ Changes of Assumptions		54,491,085		713,730
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		81,144
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,703,800
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer	\$	31,467,935 - 16,873,429	\$	412,170 - 121,999
Contributions and Proportionate Share of Contributions				,
Total Deferred Inflows of Resources	\$	48,341,364	\$	534,169
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	1,455,922 (62,425)
Total Employer Pension Expense	\$	111,155,119	\$	1,393,497
Covered Payroll:	\$	341,237,099	\$	4,315,139
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	13,468,498
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	16,435,196
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	10,960,343
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	89,376
<b>♦</b> 2024	\$	20,165,452	\$	246,140
♦ 2025	\$	24,228,135	\$	312,497
♦ 2026	\$	42,288,641	\$	546,502
◆ 2027	\$	(2,258,546)	\$	(24,884)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		pleton Housing Authority
◆ Current Proportionate Share				0.072790%
♦ Prior Proportionate Share				0.074067%
Beginning Net Pension Liability	\$	842,013,303	\$	623,654
Ending Net Pension Liability	\$	1,028,277,936	\$	748,482
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		50,512
♦ Changes of Assumptions		54,491,085		39,664
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		29,952
Total Deferred Outflows of Resources	\$	140,758,160	\$	120,128
Total Deferred Inflows of Resources:				
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	22,905
<ul> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		22,254
Total Deferred Inflows of Resources	\$	48,341,364	\$	45,159
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	80,910
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(1,835)
Total Employer Pension Expense	\$	111,155,119	\$	79,075
Covered Payroll:	\$	341,237,099	\$	64,611
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	748,482
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	913,350
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	609,097
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pensior	Expense:
<b>♦</b> 2023	\$	7,993,114	\$	5,249
◆ 2024	\$	20,165,452	\$	16,267
♦ 2025	\$	24,228,135	\$	21,784
♦ 2026	\$	42,288,641	\$	34,422
♦ 2027	\$	(2,258,546)	\$	(2,753)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Upton
◆ Current Proportionate Share				1.034655%
◆ Prior Proportionate Share				1.024691%
Beginning Net Pension Liability	\$	842,013,303	\$	8,628,031
Ending Net Pension Liability	\$	1,028,277,936	\$	10,639,124
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		717,984
◆ Changes of Assumptions		54,491,085		563,794
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		139,667
Total Deferred Outflows of Resources	\$	140,758,160	\$	1,421,445
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	325,584
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		64,450
Total Deferred Inflows of Resources	\$	48,341,364	\$	390,034
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,150,071
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	Ψ	-	Ψ	121,093
Total Employer Pension Expense	\$	111,155,119	\$	1,271,164
Covered Payroll:	\$	341,237,099	\$	3,631,891
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	10,639,124
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	12,982,598
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	8,657,866
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future	Pensio	n Expense:
<ul><li>◆ 2023</li></ul>	\$	7,993,114	\$	116,358
♦ 2024	\$	20,165,452	\$	235,105
◆ 2025	\$	24,228,135	\$	253,131
• 2026 • 2027	\$	42,288,641	\$	441,531
◆ 2027     ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(14,714)
▼ IncicalCl	Ψ	-	Ψ	-

Pension Amounts as of December 31, 2022	Wo	rcester Regional Retirement System		Uxbridge
♦ Current Proportionate Share				2.972244%
♦ Prior Proportionate Share				2.967660%
Beginning Net Pension Liability	\$	842,013,303	\$	24,988,090
Ending Net Pension Liability	\$	1,028,277,936	\$	30,562,933
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		2,062,549
◆ Changes of Assumptions		54,491,085		1,619,608
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		105,102
Total Deferred Outflows of Resources	\$	140,758,160	\$	3,787,259
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer	\$	31,467,935 - 16,873,429	\$	935,304 - 662,413
Contributions and Proportionate Share of Contributions	_	40.044.004	_	4 = 0 = -4 =
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,597,717
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	3,303,802 (289,458)
Total Employer Pension Expense	\$	111,155,119	\$	3,014,344
Covered Payroll:	\$	341,237,099	\$	11,177,360
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	30,562,933
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	37,295,013
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	24,871,389
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	49,555
<b>♦</b> 2024	\$	20,165,452	\$	415,195
<b>♦</b> 2025	\$	24,228,135	\$	614,649
<b>♦</b> 2026	\$	42,288,641	\$	1,173,291
<b>♦</b> 2027	\$	(2,258,546)	\$	(63,148)
◆ Thereafter	\$	-	\$	-

♦ Prior Proportionate Share  Beginning Net Pension Liability  \$ 842,013,303 \$ 7	94940% 93979% <b>791,312</b> <b>976,246</b> - 65,882 51,734 48,544
Beginning Net Pension Liability \$ 842,013,303 \$ 7  Ending Net Pension Liability \$ 1,028,277,936 \$ 9  Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ - \$  ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments  ◆ Changes of Assumptions 54,491,085  ◆ Changes in Proportion and Differences Between Employer 16,873,429	<b>791,312 976,246</b> - 65,882 51,734 48,544
Ending Net Pension Liability \$ 1,028,277,936 \$ 9  Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ - \$  ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments  ◆ Changes of Assumptions 54,491,085  ◆ Changes in Proportion and Differences Between Employer 16,873,429	- 65,882 51,734 48,544
Total Deferred Outflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ - \$  ◆ Net Difference Between Projected and Actual Investment 69,393,646 Earnings on Pension Plan Investments  ◆ Changes of Assumptions 54,491,085  ◆ Changes in Proportion and Differences Between Employer 16,873,429	- 65,882 51,734 48,544
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Net Difference Between Projected and Actual Investment         Earnings on Pension Plan Investments</li> <li>◆ Changes of Assumptions</li> <li>◆ Changes in Proportion and Differences Between Employer</li> <li>\$ - \$</li> <li>69,393,646</li> <li>54,491,085</li> <li>16,873,429</li> </ul>	51,734 48,544
<ul> <li>Net Difference Between Projected and Actual Investment         <ul> <li>Earnings on Pension Plan Investments</li> </ul> </li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer</li> <li>16,873,429</li> </ul>	51,734 48,544
Earnings on Pension Plan Investments  ◆ Changes of Assumptions  ◆ Changes in Proportion and Differences Between Employer  16,873,429	51,734 48,544
♦ Changes in Proportion and Differences Between Employer 16,873,429	48,544
♦ Changes in Proportion and Differences Between Employer 16,873,429	
	.66,160
Total Deferred Outflows of Resources \$ 140,758,160 \$ 1	
Total Deferred Inflows of Resources:	
♦ Differences Between Expected and Actual Experience \$ 31,467,935 \$	29,876
♦ Changes of Assumptions -	-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  16,873,429	-
Total Deferred Inflows of Resources \$ 48,341,364 \$	29,876
Employer Pension Expense:	
	105,531
◆ Net Amortization of Deferred Amounts from Changes in  Proportion and Differences Between Employer Contributions  and Proportionate Share of Contributions	(7,851)
Total Employer Pension Expense \$ 111,155,119 \$	97,680
Covered Payroll: \$ 341,237,099 \$ 2	225,821
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:	
♦ Current discount rate: 7.25% \$ 1,028,277,936 \$ 9	976,246
	191,283
♦ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 7	794,446
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Exper	nse:
<b>♦</b> 2023 \$ 7,993,114 \$	23,522
♦ 2024 \$ 20,165,452 \$	33,050
♦ 2025 \$ 24,228,135 \$	33,696
◆ 2026 \$ 42,288,641 \$	47,328
♦ 2027 \$ (2,258,546) \$ ♦ Thereafter \$ - \$	(1,312)

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	Wac	husett Regional
♦ Current Proportionate Share				3.161975%
♦ Prior Proportionate Share				3.178198%
Beginning Net Pension Liability	\$	842,013,303	\$	26,760,851
Ending Net Pension Liability	\$	1,028,277,936	\$	32,513,894
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		2,194,210
◆ Changes of Assumptions		54,491,085		1,722,995
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		491,986
Total Deferred Outflows of Resources	\$	140,758,160	\$	4,409,191
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	995,008
◆ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		646,577
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,641,585
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	3,514,697
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		190,697
Total Employer Pension Expense	\$	111,155,119	\$	3,705,394
Covered Payroll:	\$	341,237,099	\$	13,881,126
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	32,513,894
◆ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	39,675,711
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	26,459,035
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	57,407
♦ 2024	\$	20,165,452	\$	523,600
♦ 2025	\$	24,228,135	\$	867,369
♦ 2026 • 2027	\$	42,288,641	\$	1,404,731
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(85,501)
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	Wo	orcester Regional Retirement		
Pension Amounts as of December 31, 2022		System		Warren
◆ Current Proportionate Share				0.614434%
◆ Prior Proportionate Share				0.625799%
Beginning Net Pension Liability	\$	842,013,303	\$	5,269,309
Ending Net Pension Liability	\$	1,028,277,936	\$	6,318,084
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		426,378
◆ Changes of Assumptions		54,491,085		334,812
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		159,412
Total Deferred Outflows of Resources	\$	140,758,160	\$	920,602
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	193,350
◆ Changes of Assumptions		-	•	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		220,425
Total Deferred Inflows of Resources	\$	48,341,364	\$	413,775
Employer Pension Expense:			' <u>'</u>	
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	682,974
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		15,392
Total Employer Pension Expense	\$	111,155,119	\$	698,366
Covered Payroll:	\$	341,237,099	\$	1,935,591
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	6,318,084
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	7,709,765
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	5,141,507
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	(1,655)
♦ 2024	\$	20,165,452	\$	92,426
♦ 2025	\$	24,228,135	\$	168,079
♦ 2026	\$	42,288,641	\$	271,723
♦ 2027 A Thoroafter	\$	(2,258,546)	\$	(23,746)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	W	arren Water District
◆ Current Proportionate Share				0.029842%
◆ Prior Proportionate Share				0.029993%
Beginning Net Pension Liability	\$	842,013,303	\$	252,547
Ending Net Pension Liability	\$	1,028,277,936	\$	306,854
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		20,708
◆ Changes of Assumptions		54,491,085		16,261
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		10,025
Total Deferred Outflows of Resources	\$	140,758,160	\$	46,994
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	9,391
◆ Changes of Assumptions		-		-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		2,237
Total Deferred Inflows of Resources	\$	48,341,364	\$	11,628
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	33,170
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		6,985
Total Employer Pension Expense	\$	111,155,119	\$	40,155
Covered Payroll:	\$	341,237,099	\$	58,588
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	306,854
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	374,445
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	249,711
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensior	Expense:
<b>♦</b> 2023	\$	7,993,114	\$	5,377
♦ 2024	\$	20,165,452	\$	8,972
◆ 2025 • 2026	\$	24,228,135	\$	8,342
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$ \$	42,288,641 (2,258,546)	\$	13,483 (808)
◆ Z027 ◆ Thereafter	Ф \$	(2,200,040)	\$ \$	(606)
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Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		Westboro
◆ Current Proportionate Share				6.868468%
◆ Prior Proportionate Share				6.839560%
Beginning Net Pension Liability	\$	842,013,303	\$	57,590,002
Ending Net Pension Liability	\$	1,028,277,936	\$	70,626,947
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		4,766,282
◆ Changes of Assumptions		54,491,085		3,742,706
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		1,271,890
Total Deferred Outflows of Resources	\$	140,758,160	\$	9,780,878
Total Deferred Inflows of Resources:				
Differences Between Expected and Actual Experience	\$	31,467,935	\$	2,161,366
♦ Changes of Assumptions		-		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		213,166
Total Deferred Inflows of Resources	\$	48,341,364	\$	2,374,532
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	7,634,651
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		256,582
Total Employer Pension Expense	\$	111,155,119	\$	7,891,233
Covered Payroll:	\$	341,237,099	\$	23,268,371
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	70,626,947
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	86,183,902
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	57,474,530
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
◆ 2023	\$	7,993,114	\$	802,947
◆ 2024	\$	20,165,452	\$	1,626,511
♦ 2025 2020	\$	24,228,135	\$	1,986,978
<ul><li>◆ 2026</li><li>◆ 2027</li></ul>	\$	42,288,641	\$	3,119,919
◆ 2027 ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(130,009)
• moroaitoi	Ψ	-	Ψ	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		tboro Housing Authority
◆ Current Proportionate Share				0.075572%
♦ Prior Proportionate Share				0.076319%
Beginning Net Pension Liability	\$	842,013,303	\$	642,613
Ending Net Pension Liability	\$	1,028,277,936	\$	777,089
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		52,442
◆ Changes of Assumptions		54,491,085		41,180
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		27,225
Total Deferred Outflows of Resources	\$	140,758,160	\$	120,847
Total Deferred Inflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	23,781
◆ Changes of Assumptions		-		-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		7,804
Total Deferred Inflows of Resources	\$	48,341,364	\$	31,585
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	84,002
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		17,547
Total Employer Pension Expense	\$	111,155,119	\$	101,549
Covered Payroll:	\$	341,237,099	\$	172,400
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	777,089
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	948,258
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	632,376
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pension	Expense:
<b>♦</b> 2023	\$	7,993,114	\$	18,353
♦ 2024	\$	20,165,452	\$	25,743
♦ 2025	\$	24,228,135	\$	16,724
♦ 2026 • 2027	\$	42,288,641	\$	30,800
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(2,358)
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<ul><li>◆ Current Proportionate Share</li><li>◆ Prior Proportionate Share</li></ul>			W	est Boylston
·				2.038247%
				2.048022%
Beginning Net Pension Liability	\$	842,013,303	\$	17,244,618
Ending Net Pension Liability	\$	1,028,277,936	\$	20,958,848
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
<ul> <li>◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		1,414,414
♦ Changes of Assumptions		54,491,085		1,110,663
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		163,853
Total Deferred Outflows of Resources	\$	140,758,160	\$	2,688,930
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	641,394
♦ Changes of Assumptions		-		-
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		619,668
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,261,062
Employer Pension Expense:				
	\$	111,155,119	\$	2,265,616
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		-		(56,829)
Total Employer Pension Expense	\$	111,155,119	\$	2,208,787
Covered Payroll:	\$	341,237,099	\$	5,533,636
Sensitivity of the Net Pension Liability to Changes in the Discount	t Rate	<b>:</b>		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	20,958,848
	\$	1,254,776,125	\$	25,575,442
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	17,055,813
Deferred Outflows of Resources and Deferred Inflows of Resource	es Re	cognized in Future F	Pensio	n Expense:
	\$	7,993,114	\$	74,027
	\$	20,165,452	\$	319,553
	\$	24,228,135	\$	333,939
	\$	42,288,641	\$	754,872
	\$ \$	(2,258,546)	\$ \$	(54,523)

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System		est Boylston sing Authority
◆ Current Proportionate Share				0.024797%
◆ Prior Proportionate Share				0.024913%
Beginning Net Pension Liability	\$	842,013,303	\$	209,767
Ending Net Pension Liability	\$	1,028,277,936	\$	254,979
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		17,207
♦ Changes of Assumptions		54,491,085		13,512
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		93,412
Total Deferred Outflows of Resources	\$	140,758,160	\$	124,131
Total Deferred Inflows of Resources:				,
♦ Differences Between Expected and Actual Experience	\$	31,467,935	\$	7,803
♦ Changes of Assumptions	·	-	•	-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		25,917
Total Deferred Inflows of Resources	\$	48,341,364	\$	33,720
Employer Pension Expense:		-	•	
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	27,563
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		8,829
Total Employer Pension Expense	\$	111,155,119	\$	36,392
Covered Payroll:	\$	341,237,099	\$	60,375
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	254,979
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	311,142
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	207,495
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pension	Expense:
<b>♦</b> 2023	\$	7,993,114	\$	13,854
<b>♦</b> 2024	\$	20,165,452	\$	18,555
<b>♦</b> 2025	\$	24,228,135	\$	30,852
♦ 2026	\$	42,288,641	\$	27,810
◆ 2027	\$	(2,258,546)	\$	(660)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2022	Wo	orcester Regional Retirement System	West	Boylston Water District
◆ Current Proportionate Share				0.105010%
◆ Prior Proportionate Share				0.103468%
Beginning Net Pension Liability	\$	842,013,303	\$	871,213
Ending Net Pension Liability	\$	1,028,277,936	\$	1,079,795
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		72,870
◆ Changes of Assumptions		54,491,085		57,221
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		61,524
Total Deferred Outflows of Resources	\$	140,758,160	\$	191,615
Total Deferred Inflows of Resources:				
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	33,044
<ul> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		33,843
Total Deferred Inflows of Resources	\$	48,341,364	\$	66,887
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	116,724
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		19,071
Total Employer Pension Expense	\$	111,155,119	\$	135,795
Covered Payroll:	\$	341,237,099	\$	433,695
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	1,079,795
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	1,317,641
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	878,712
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	28,330
<b>♦</b> 2024	\$	20,165,452	\$	36,190
♦ 2025	\$	24,228,135	\$	20,783
♦ 2026 • 2027	\$	42,288,641	\$	40,457
♦ 2027 ♦ Thereafter	\$ \$	(2,258,546)	\$ \$	(1,032)
• Ilicicaldi	φ	-	Φ	-

	Wo	orcester Regional Retirement		
Pension Amounts as of December 31, 2022		System	We	st Brookfield
♦ Current Proportionate Share				0.452402%
♦ Prior Proportionate Share				0.454828%
Beginning Net Pension Liability	\$	842,013,303	\$	3,829,713
Ending Net Pension Liability	\$	1,028,277,936	\$	4,651,948
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	-	\$	-
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		313,938
◆ Changes of Assumptions		54,491,085		246,519
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		51,792
Total Deferred Outflows of Resources	\$	140,758,160	\$	612,249
Total Deferred Inflows of Resources:				
<ul> <li>◆ Differences Between Expected and Actual Experience</li> <li>◆ Changes of Assumptions</li> </ul>	\$	31,467,935	\$	142,361
<ul> <li>◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		16,873,429		160,584
Total Deferred Inflows of Resources	\$	48,341,364	\$	302,945
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	502,868
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(19,999)
Total Employer Pension Expense	\$	111,155,119	\$	482,869
Covered Payroll:	\$	341,237,099	\$	1,256,660
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:		
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	4,651,948
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	5,676,629
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	3,785,644
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future	Pensio	n Expense:
<b>♦</b> 2023	\$	7,993,114	\$	19,217
♦ 2024	\$	20,165,452	\$	67,981
♦ 2025	\$	24,228,135	\$	74,380
♦ 2026 • 2027	\$	42,288,641	\$	160,054
◆ 2027     ◆ Thereafter	\$ \$	(2,258,546)	\$ \$	(12,328)
▼ Increate	Ψ	-	Ψ	-

• Current Proportionate Share         1.415504%           • Prior Proportionate Share         1.405503%           Beginning Net Pension Liability         \$ 842,013,303         \$ 11,834,523           Ending Net Pension Liability         \$ 1,028,277,936         \$ 14,555,312           Total Deferred Outflows of Resources:           • Differences Between Expected and Actual Experience         \$ 0.933,646         982,270           • Earnings on Pension Plan Investments         69,393,646         982,270           • Changes of Assumptions         54,491,085         771,323           • Changes in Proportion and Differences Between Employer Contributions and Proportion and Share of Contributions         16,873,429         117,330           Total Deferred Inflows of Resources           • Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 445,430           • Changes of Assumptions         - 0.64,758,160         \$ 1,870,923           Total Deferred Inflows of Resources           • Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 445,430           • Changes in Proportion and Differences Between Employer Contributions         16,873,429         249,398           • Total Deferred Inflows of Resources         \$ 48,341,364         694,828           Employer Pension Expense<	Pension Amounts as of December 31, 2022	Worcester Regional Retirement System			Westminster	
Beginning Net Pension Liability         \$ 842,013,303         \$ 11,834,523           Ending Net Pension Liability         \$ 1,028,277,936         \$ 14,555,312           Total Deferred Outflows of Resources:	◆ Current Proportionate Share				1.415504%	
Ending Net Pension Liability \$ 1,028,277,936 \$ 14,555,312    Total Deferred Outflows of Resources:	♦ Prior Proportionate Share				1.405503%	
Total Deferred Outflows of Resources:           ◆ Differences Between Expected and Actual Experience         \$           ♦ Net Differences Between Projected and Actual Investment         69,393,646         982,270           Earnings on Pension Plan Investments         60,393,646         982,270           Earnings on Pension Plan Investments         54,491,085         771,323           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         117,330           Total Deferred Inflows of Resources:         • Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 445,430           • Changes of Assumptions         -         -         -           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         249,398           Employer Pension Expense:         • Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,573,405           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         1 11,155,119         \$ 1,516,876           Covered Payroll:         \$ 341,237,099         \$ 4,687,311         \$ 694,828           Employer Pension Expense         \$ 111,155,119         \$ 1,516,876           Covered	Beginning Net Pension Liability	\$	842,013,303	\$	11,834,523	
◆ Net Differences Between Projected and Actual Experience         \$         \$         982,270           • Net Difference Between Projected and Actual Investments         69,393,646         982,270           • Changes on Pension Plan Investments         54,491,085         771,323           • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         117,330           • Changes in Proportion and Differences Between Employer Contributions of Resources:         • 140,758,160         \$ 1,870,923           • Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 445,430           • Changes of Assumptions             • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions             • Total Deferred Inflows of Resources         \$ 48,341,364         \$ 694,828           Employer Pension Expense:         • 111,155,119         \$ 1,573,405           • Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions and Proportionate Share of Contributions             • Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions              • Total Employer Pension Expense         \$ 111,155,119         \$ 1,516,876	Ending Net Pension Liability	\$	1,028,277,936	\$	14,555,312	
Net Difference Between Projected and Actual Investments         69,393,646         982,270           Earnings on Pension Plan Investments         54,491,085         771,323           ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         117,330           Total Deferred Outflows of Resources           ♦ Differences Between Expected and Actual Experience         \$31,467,935         \$445,430           ♦ Changes of Assumptions         • Changes of Assumptions         • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         249,398           Employer Pension Expense:         • Proportion Additional Experience Setween Employer Contributions and Proportionate Share of Plan Pension Expense         \$111,155,119         \$1,573,405           • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$111,155,119         \$1,516,876           Covered Payroll:         \$341,237,009         \$4,687,311         \$66,529           Covered Payroll:         \$341,237,009         \$4,687,311           Sensitivity of the Net Pension Liability to Changes in the Discount rate:         \$1,028,277,936         \$14,555,312           • 1% decrease in the discount rate:         6.25%         \$1,028,277,936         \$14,555,312	Total Deferred Outflows of Resources:					
Earnings on Pension Plan Investments         54,491,085         771,323           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         117,330           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 1,870,923           Total Deferred Inflows of Resources           ● Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 445,430           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 48,341,364         \$ 694,828           Employer Pension Expense:         \$ 111,155,119         \$ 1,573,405           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions and Proportionate Share of Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,516,876           Covered Payroll:         \$ 341,237,009         \$ 4,687,311         \$ 1,516,876           Covered Payroll:         \$ 341,237,009         \$ 4,687,311           Sensitivity of the Net Pension Liability to Changes in the Discount rate:         \$ 1,028,277,936         \$ 1,516,876           Covered Payroll:         \$ 341,237,009         \$ 4,687,311           Sensitivity of	◆ Differences Between Expected and Actual Experience	\$	-	\$	-	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         117,330           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 1,870,923           Total Deferred Inflows of Resources:         ⇒ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 445,430           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         249,398           Employer Pension Expense:         \$ 48,341,364         \$ 694,828           Employer Pension Expense:         \$ 111,155,119         \$ 1,573,405           ◆ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,573,405           ◆ Net Employer Pension Expense Enployer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,516,876           Covered Payroll:         \$ 341,237,099         \$ 4,687,311           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         \$ 1,028,277,936         \$ 14,555,312           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 17,761,402           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 11,844,767 <td></td> <td></td> <td>69,393,646</td> <td></td> <td>982,270</td>			69,393,646		982,270	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         117,330           Total Deferred Outflows of Resources         \$ 140,758,160         \$ 1,870,923           Total Deferred Inflows of Resources:         ⇒ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 445,430           ◆ Changes of Assumptions         -         -         -           ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         249,398           Employer Pension Expense:         \$ 48,341,364         \$ 694,828           Employer Pension Expense:         \$ 111,155,119         \$ 1,573,405           ◆ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,573,405           ◆ Net Employer Pension Expense Enployer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,516,876           Covered Payroll:         \$ 341,237,099         \$ 4,687,311           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         \$ 1,028,277,936         \$ 14,555,312           ◆ 1% decrease in the discount rate: 6.25%         \$ 1,254,776,125         \$ 17,761,402           ◆ 1% increase in the discount rate: 8.25%         \$ 836,788,149         \$ 11,844,767 <td>◆ Changes of Assumptions</td> <td></td> <td>54,491,085</td> <td></td> <td>771,323</td>	◆ Changes of Assumptions		54,491,085		771,323	
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience \$ 31,467,935 \$ 445,430    ◆ Changes of Assumptions	◆ Changes in Proportion and Differences Between Employer		16,873,429		117,330	
◆ Differences Between Expected and Actual Experience         \$ 31,467,935         \$ 445,430           ◆ Changes of Assumptions	Total Deferred Outflows of Resources	\$	140,758,160	\$	1,870,923	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         249,398           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 694,828           Employer Pension Expense:           ◆ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,573,405           ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         - (56,529)           Total Employer Pension Expense         \$ 111,155,119         \$ 1,516,876           Covered Payroll:         \$ 341,237,099         \$ 4,687,311           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:           ◆ Current discount rate:         7.25%         \$ 1,028,277,936         \$ 14,555,312           ◆ 1% decrease in the discount rate:         6.25%         \$ 1,254,776,125         \$ 17,761,402           ◆ 1% increase in the discount rate:         8.25%         8 36,788,149         \$ 11,844,767           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:           ◆ 2023         \$ 7,993,114         \$ 57,539           ◆ 2024         \$ 20,165,452         \$ 231,513           ◆ 2025         \$ 24,228,135         \$ 325,939 </td <td>Total Deferred Inflows of Resources:</td> <td></td> <td></td> <td></td> <td></td>	Total Deferred Inflows of Resources:					
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         16,873,429         249,398           Total Deferred Inflows of Resources         \$ 48,341,364         \$ 694,828           Employer Pension Expense:         ♦ Proportionate Share of Plan Pension Expense         \$ 111,155,119         \$ 1,573,405           Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         \$ 111,155,119         \$ 1,516,876           Covered Payroll:         \$ 341,237,099         \$ 4,687,311           Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ 1,028,277,936         \$ 14,555,312           ♦ 1% decrease in the discount rate: 7.25%         \$ 1,028,277,936         \$ 14,555,312           ♦ 1% increase in the discount rate: 8.25%         \$ 336,788,149         \$ 11,844,767           Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023         \$ 7,993,114         \$ 57,539           ♦ 2024         \$ 20,165,452         \$ 231,513         \$ 325,939           ♦ 2025         \$ 42,288,641         \$ 584,389           ♦ 2027         \$ 42,288,641         \$ 584,389           ♦ 2027         \$ (2,258,546)         \$ (23,285)	◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	445,430	
Total Deferred Inflows of Resources \$ 48,341,364 \$ 694,828    Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 1,573,405  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 1,516,876    Covered Payroll: \$ 341,237,099 \$ 4,687,311    Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 14,555,312    ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 17,761,402    ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 11,844,767    Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 57,539    ◆ 2024 \$ 20,165,452 \$ 231,513    ◆ 2025 \$ 24,228,135 \$ 325,939    ◆ 2026 \$ 42,228,135 \$ 325,939    ◆ 2026 \$ 42,228,641 \$ 584,389    ◆ 2027 \$ (2,258,546) \$ (23,285)	◆ Changes of Assumptions		-		-	
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense \$ 111,155,119 \$ 1,573,405  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense \$ 111,155,119 \$ 1,516,876  Covered Payroll: \$ 341,237,099 \$ 4,687,311  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25% \$ 1,028,277,936 \$ 14,555,312  ◆ 1% decrease in the discount rate: 6.25% \$ 1,254,776,125 \$ 17,761,402  ◆ 1% increase in the discount rate: 8.25% \$ 836,788,149 \$ 11,844,767  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023 \$ 7,993,114 \$ 57,539  ◆ 2024 \$ 20,165,452 \$ 231,513  ◆ 2025 \$ 24,228,135 \$ 325,939  ◆ 2026 \$ 42,288,641 \$ 584,389  ◆ 2027 \$ (2,258,546) \$ (23,285)			16,873,429		249,398	
<ul> <li>◆ Proportionate Share of Plan Pension Expense</li> <li>♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Employer Pension Expense</li> <li>★ 111,155,119</li> <li>★ 1,516,876</li> <li>Covered Payroll:</li> <li>\$ 341,237,099</li> <li>\$ 4,687,311</li> <li>Sensitivity of the Net Pension Liability to Changes in the Discount Rate:</li> <li>♦ Current discount rate: 7.25%</li> <li>♦ 1,028,277,936</li> <li>♦ 14,555,312</li> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>♦ 1,254,776,125</li> <li>♦ 17,761,402</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>♦ 836,788,149</li> <li>♦ 11,844,767</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>♦ 2024</li> <li>♦ 20,165,452</li> <li>♣ 231,513</li> <li>♦ 2025</li> <li>♦ 24,228,135</li> <li>♦ 325,939</li> <li>♦ 2026</li> <li>♦ 42,288,641</li> <li>♠ 584,389</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (23,285)</li> </ul>	Total Deferred Inflows of Resources	\$	48,341,364	\$	694,828	
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions         Total Employer Pension Expense</li></ul>	Employer Pension Expense:					
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions  Total Employer Pension Expense  \$ 111,155,119  \$ 1,516,876  Covered Payroll:  \$ 341,237,099  \$ 4,687,311  Sensitivity of the Net Pension Liability to Changes in the Discount Rate:  ◆ Current discount rate: 7.25%  \$ 1,028,277,936  \$ 14,555,312  ◆ 1% decrease in the discount rate: 6.25%  \$ 1,254,776,125  \$ 17,761,402  ◆ 1% increase in the discount rate: 8.25%  \$ 836,788,149  \$ 11,844,767  Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:  ◆ 2023  \$ 7,993,114  \$ 57,539  ◆ 2024  \$ 20,165,452  \$ 231,513  ◆ 2025  \$ 24,228,135  \$ 325,939  ◆ 2026  \$ 42,288,641  \$ 584,389  ◆ 2027  \$ (2,258,546)  \$ (23,285)	◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	1,573,405	
Covered Payroll:       \$ 341,237,099       \$ 4,687,311         Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 14,555,312         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 17,761,402         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 11,844,767         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 57,539         ♦ 2024       \$ 20,165,452       \$ 231,513         ♦ 2025       \$ 24,228,135       \$ 325,939         ♦ 2026       \$ 42,288,641       \$ 584,389         ♦ 2027       \$ (2,258,546)       \$ (23,285)	Proportion and Differences Between Employer Contributions		-		(56,529)	
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:         ◆ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 14,555,312         ◆ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 17,761,402         ◆ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 11,844,767         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ◆ 2023       \$ 7,993,114       \$ 57,539         ◆ 2024       \$ 20,165,452       \$ 231,513         ◆ 2025       \$ 24,228,135       \$ 325,939         ◆ 2026       \$ 42,288,641       \$ 584,389         ◆ 2027       \$ (2,258,546)       \$ (23,285)	Total Employer Pension Expense	\$	111,155,119	\$	1,516,876	
♦ Current discount rate: 7.25%       \$ 1,028,277,936       \$ 14,555,312         ♦ 1% decrease in the discount rate: 6.25%       \$ 1,254,776,125       \$ 17,761,402         ♦ 1% increase in the discount rate: 8.25%       \$ 836,788,149       \$ 11,844,767         Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 57,539         ♦ 2024       \$ 20,165,452       \$ 231,513         ♦ 2025       \$ 24,228,135       \$ 325,939         ♦ 2026       \$ 42,288,641       \$ 584,389         ♦ 2027       \$ (2,258,546)       \$ (23,285)	Covered Payroll:	\$	341,237,099	\$	4,687,311	
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> <li>\$ 1,254,776,125</li> <li>\$ 17,761,402</li> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 11,844,767</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 57,539</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 231,513</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 325,939</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 584,389</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (23,285)</li> </ul>	Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:			
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> <li>\$ 836,788,149</li> <li>\$ 11,844,767</li> <li>Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:</li> <li>♦ 2023</li> <li>\$ 7,993,114</li> <li>\$ 57,539</li> <li>♦ 2024</li> <li>\$ 20,165,452</li> <li>\$ 231,513</li> <li>♦ 2025</li> <li>\$ 24,228,135</li> <li>\$ 325,939</li> <li>♦ 2026</li> <li>\$ 42,288,641</li> <li>\$ 584,389</li> <li>♦ 2027</li> <li>\$ (2,258,546)</li> <li>\$ (23,285)</li> </ul>	♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	14,555,312	
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:         ♦ 2023       \$ 7,993,114       \$ 57,539         ♦ 2024       \$ 20,165,452       \$ 231,513         ♦ 2025       \$ 24,228,135       \$ 325,939         ♦ 2026       \$ 42,288,641       \$ 584,389         ♦ 2027       \$ (2,258,546)       \$ (23,285)						
♦ 2023       \$ 7,993,114       \$ 57,539         ♦ 2024       \$ 20,165,452       \$ 231,513         ♦ 2025       \$ 24,228,135       \$ 325,939         ♦ 2026       \$ 42,288,641       \$ 584,389         ♦ 2027       \$ (2,258,546)       \$ (23,285)	♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	11,844,767	
♦ 2024       \$ 20,165,452       \$ 231,513         ♦ 2025       \$ 24,228,135       \$ 325,939         ♦ 2026       \$ 42,288,641       \$ 584,389         ♦ 2027       \$ (2,258,546)       \$ (23,285)	Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:					
♦ 2025       \$ 24,228,135       \$ 325,939         ♦ 2026       \$ 42,288,641       \$ 584,389         ♦ 2027       \$ (2,258,546)       \$ (23,285)						
♦ 2026       \$ 42,288,641       \$ 584,389         ♦ 2027       \$ (2,258,546)       \$ (23,285)						
<b>♦</b> 2027 \$ (2,258,546) \$ (23,285)						
▼ Historica Ψ = Φ =	◆ Z027 ◆ Thereafter	\$	(2,200,040)	φ \$	(23,263)	

Pension Amounts as of December 31, 2022	Worcester Regional Retirement System			Winchendon	
♦ Current Proportionate Share				2.524905%	
♦ Prior Proportionate Share				2.522865%	
Beginning Net Pension Liability	\$	842,013,303	\$	21,242,856	
Ending Net Pension Liability	\$	1,028,277,936	\$	25,963,039	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	-	\$	-	
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		69,393,646		1,752,123	
◆ Changes of Assumptions		54,491,085		1,375,848	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		152,790	
Total Deferred Outflows of Resources	\$	140,758,160	\$	3,280,761	
Total Deferred Inflows of Resources:  ◆ Differences Between Expected and Actual Experience  ◆ Changes of Assumptions	\$	31,467,935 -	\$	794,535 -	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		249,069	
Total Deferred Inflows of Resources	\$	48,341,364	\$	1,043,604	
Employer Pension Expense:  ◆ Proportionate Share of Plan Pension Expense  ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	111,155,119 -	\$	2,806,561 (207,622)	
Total Employer Pension Expense	\$	111,155,119	\$	2,598,939	
Covered Payroll:	\$	341,237,099	\$	6,821,140	
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rat	e:			
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	25,963,039	
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	31,681,902	
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	21,128,104	
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	ecognized in Future I	Pensio	n Expense:	
<b>♦</b> 2023	\$	7,993,114	\$	201,430	
♦ 2024	\$	20,165,452	\$	486,645	
♦ 2025	\$	24,228,135	\$	549,196	
♦ 2026 • 2027	\$	42,288,641	\$	1,055,138	
◆ 2027 ◆ Thereafter	\$	(2,258,546)	\$	(55,252)	
◆ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2022	Worcester Regional Retirement System			Winchendon Housing Authority		
♦ Current Proportionate Share				0.193357%		
◆ Prior Proportionate Share				0.193325%		
Beginning Net Pension Liability	\$	842,013,303	\$	1,627,819		
Ending Net Pension Liability	\$	1,028,277,936	\$	1,988,243		
Total Deferred Outflows of Resources:						
◆ Differences Between Expected and Actual Experience	\$	-	\$	-		
<ul> <li>◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		69,393,646		134,177		
◆ Changes of Assumptions		54,491,085		105,362		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		77,896		
Total Deferred Outflows of Resources	\$	140,758,160	\$	317,435		
Total Deferred Inflows of Resources:						
◆ Differences Between Expected and Actual Experience	\$	31,467,935	\$	60,845		
◆ Changes of Assumptions		-		-		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		16,873,429		-		
Total Deferred Inflows of Resources	\$	48,341,364	\$	60,845		
Employer Pension Expense:				_		
◆ Proportionate Share of Plan Pension Expense	\$	111,155,119	\$	214,926		
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		51,351		
Total Employer Pension Expense	\$	111,155,119	\$	266,277		
Covered Payroll:	\$	341,237,099	\$	605,988		
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:				
♦ Current discount rate: 7.25%	\$	1,028,277,936	\$	1,988,243		
♦ 1% decrease in the discount rate: 6.25%	\$	1,254,776,125	\$	2,426,192		
♦ 1% increase in the discount rate: 8.25%	\$	836,788,149	\$	1,617,985		
Deferred Outflows of Resources and Deferred Inflows of Resour	Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense:					
◆ 2023	\$	7,993,114	\$	53,977		
<b>♦</b> 2024	\$	20,165,452	\$	71,629		
♦ 2025	\$	24,228,135	\$	50,777		
♦ 2026	\$	42,288,641	\$	84,544		
♦ 2027	\$	(2,258,546)	\$	(4,337)		
◆ 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 7.25%; the municipal bond rate is 3.72%, based on the December 2022 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 7.25%.