

#### **ESSEX REGIONAL RETIREMENT SYSTEM**

FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2022

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## Financial Section

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#### **Independent Auditor's Report**

To the Honorable Essex Regional Retirement Board Essex Regional Retirement System Danvers, Massachusetts

#### **Opinion**

We have audited the accompanying financial statements of the Essex Regional Retirement System (ERRS) as of and for the year ended December 31, 2022, and the related notes to the financial statements, which collectively comprise the Essex Regional Retirement System's financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Essex Regional Retirement System as of December 31, 2022, and the changes in its financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

#### **Basis for Opinion**

We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the ERRS and to meet our ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### **Responsibilities of Management for the Financial Statements**

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

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the ERRS's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

#### Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgement made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards and *Government Auditing Standards*, we:

- Exercise professional judgement and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or
  error, and design and perform auditing procedures responsive to those risks. Such procedures include
  examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the ERRS's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant
  accounting estimates made by management, as well as evaluate the overall presentation of the financial
  statements.
- Conclude whether, in our judgement, there are conditions or events, considered in the aggregate, that
  raise substantial doubt about the ERRS's ability to continue as a going concern for a reasonable period of
  time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

#### **Required Supplementary Information**

Accounting principles generally accepted in the United States of America require that Management's Discussion and Analysis; the Schedule of Changes in the Net Pension Liability and Related Ratios; the Schedule of Contributions; and the Schedule of Investment Returns be presented to supplement the financial statements. Such information is the responsibility of management and, although not a part of the financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the financial statements, and other knowledge we obtained during our audit of the financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

#### Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated August 28, 2023, on our consideration of the Essex Regional Retirement System's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of ERRS's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the ERRS's internal control over financial reporting and compliance.

#### **Restriction on Use**

This report is intended solely for the information and use of Essex Regional Retirement System, the Public Employee Retirement Administration Commission and all member units and is not intended to be and should not be used by anyone other than these specified parties.

August 28, 2023

Powers & Sullivan LLC

#### Management's Discussion and Analysis

As management of the Essex Regional Retirement System, we offer readers of these financial statements this narrative overview and analysis of the financial activities for the year ended December 31, 2022. The System complies with financial reporting requirements issued by the Governmental Accounting Standards Board (GASB).

The GASB is the authoritative standard setting body that provides guidance on how to prepare financial statements in conformity with generally accepted accounting principles (GAAP). Users of these financial statements rely on the GASB to establish consistent reporting standards for all governments in the United States. This consistent application is the only way users can assess the financial condition of a public retirement system compared to others.

#### **Financial Highlights**

- The System's assets exceeded its liabilities at the close of the most recent year by \$629.6 million (net position).
- The System's net position decreased by \$75.9 million for the year ended December 31, 2022.
- Total investment loss was \$75.8 million; investment expenses were \$3.2 million; and net investment loss was \$79.0 million.
- Total contributions were \$67.0 million including \$44.5 million from employers, \$16.4 million from members, and \$6.1 million from other contributions.
- Retirement benefits, refunds and transfers amounted to \$62.8 million.
- Administrative expenses were \$1.1 million.
- The total pension liability was \$1.1 billion as of December 31, 2022, while the net pension liability was \$464.0 million.
- The Plan fiduciary net position as a percentage of the total pension liability was 57.57%.

#### Overview of the Financial Statements

This discussion and analysis is intended to serve as an introduction to the System's fiduciary financial statements. These fiduciary financial statements comprise of four components: 1) management's discussion and analysis, 2) fiduciary financial statements, 3) notes to the financial statements and 4) required supplementary information.

#### **Fiduciary Financial Statements**

The *statement of net position* presents information on all assets and deferred outflows of resources less deferred inflows of resources and liabilities with the difference reported as *net position*. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position is improving or deteriorating.

The statement of changes in fiduciary net position presents information showing how the System's net position changed during the most recent year. All changes in net position are reported as soon as the underlying event giving rise to the change occurs, regardless of the timing of related cash flows. Thus, additions and deductions are reported in this statement for some items that will only result in cash flows in future periods.

#### **Notes to the Financial Statements**

The notes provide additional information that is essential to a full understanding of the data provided in the fiduciary financial statements.

#### **Required Supplementary Information**

Accounting principles generally accepted in the United States of America require that the Schedule of Changes in the Net Pension Liability and Related Ratios; the Schedule of Contributions; and the Schedule of Investment Returns be presented to supplement the financial statements. Such information, although not a part of the financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the financial statements in an appropriate operational, economic, or historical context.

#### Financial Analysis

As noted earlier, net position may serve over time as a useful indicator of the System's financial position. The System's assets exceeded liabilities by \$629.6 million at the close of 2022.

The assets accumulated are held to provide pension benefits for qualified retirees along with active and inactive employees of the member units. At year-end, the System's net position includes investments of \$620.2 million, cash of \$6.4 million, accounts receivable of \$3.5 million, and capital assets of \$122,000.

In 2022, the System's contributions totaled \$67.0 million while deductions totaled \$63.9 million, which resulted in a current surplus of \$3.1 million before investment income. For 2021, there was a \$2.0 current surplus before investment income.

The main difference of the increase (decrease) in net position between years was the change in net investment income between years. In 2021, the System had net investment income of \$114.7 million, which decreased to a loss of \$79.0 million in 2022. The annual money weighted rate of return was -11.36% and 19.69% in 2022, and 2021, respectively. Fluctuations in the System's annual investment returns are expected.

The following tables present summarized financial information for the past two years.

	2022		2021
Statement of Fiduciary Net Position		•	
Assets:			
Cash and cash equivalents\$	6,351,212	\$	5,084,935
Investments	620,182,560		696,841,064
Receivables	3,528,417		4,046,618
Capital assets, net of accumulated depreciation	121,945		133,203
•		•	
Total assets	630,184,134		706,105,820
•			
Liabilities:			
Accounts payable	618,128		618,482
Abandoned property	1,282		1,282
•		•	
Total liabilities	619,410		619,764
•			
Net Position Restricted for Pension Benefits\$	629,564,724	\$	705,486,056

	2022	2021
Statement of Changes in Fiduciary Net Position		
Additions:		
Contributions:		
Member contributions\$	, ,	\$ 15,718,789
Employer contributions	44,519,430	41,415,403
Other contributions	6,100,184	5,646,014
Total contributions	66,979,685	62,780,206
Total contributions	00,979,005	02,700,200
Net investment income:		
Total investment income (loss)	(75,765,225)	117,906,141
Less: investment expenses	(3,213,083)	(3,166,715)
Net investment income (loss)	(78,978,308)	114,739,426
Total additions	(11,998,623)	177,519,632
Total additions	(11,990,023)	177,319,032
Deductions:		
Administration	1,117,217	1,009,530
Retirement benefits, refunds and transfers	62,805,492	59,825,211
Total deductions	63,922,709	60,834,741
Notice and the second of the s	(75 004 000)	440.004.004
Net increase (decrease) in fiduciary net position	(75,921,332)	116,684,891
Fiduciary net position at beginning of year	705,486,056	588,801,165
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Fiduciary net position at end of year\$	629,564,724	\$ 705,486,056

In 2016, the System recognized a contribution from Essex North Shore Agricultural and Technical School District (Essex Tech) as the successor agency to both the Essex Agricultural and Technical High School and the North Shore Vocational Regional School. Legislation requires Essex Tech to reimburse ERRS for the actuarially determined liability associated with the retired members from Essex Agricultural and Technical High School who remain with ERRS. Accordingly, in 2015, PERAC approved a funding schedule for Essex Tech to pay ERRS in equal annual payments of \$421,947 through 2033. The \$2.8 million present value of these payments has been recorded as an intergovernmental receivable at year-end.

#### Requests for Information

This financial report is designed to provide a general overview of the System's finances for all those with an interest in the System's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to the System's Board, 491 Maple Street #202, Danvers, MA 01923.

#### STATEMENT OF FIDUCIARY NET POSITION

#### DECEMBER 31, 2022

Assets CURRENT:	
Cash and cash equivalents	\$ 6,351,212
Investments in Pension Reserve Investment Trust	617,261,760
Pooled alternative investments	2,882,761
Pooled real estate funds	
Total investments	620,182,560
Receivables, net of allowance for uncollectibles:	
Member contributions	670,829
Employer pension appropriation	26,289
Essex Agricultural and Technical High School	195,443
Total receivables	892,561
Total current assets	627,426,333
NONCURRENT:	
Receivables, net of allowance for uncollectibles:	
Essex Agricultural and Technical High School	2,635,856
Capital assets, net of accumulated depreciation	121,945
Total noncurrent assets	2,757,801
Total Assets	630,184,134
Liabilities	
Accounts payable	618,128
Other liabilities	1,282
Total Liabilities	619,410
Net Position Restricted for Pensions	\$629,564,724

See notes to financial statements.

#### STATEMENT OF CHANGES IN FIDUCIARY NET POSITION

#### YEAR ENDED DECEMBER 31, 2022

Additions:		
Contributions:	Φ	44 540 420
Employer pension appropriation		44,519,430
Member contributions.		16,360,071
Transfers from other systems.		3,560,536
3(8)(c) contributions from other systems		2,110,873
Workers' compensation settlements		6,800
Federal grant reimbursements		43,407
State COLA reimbursements		169,687
Members' makeup payments and redeposits		176,701
Interest not refunded		32,052
Other revenue	•	128
Total contributions		66,979,685
	•	
Net investment income (loss):		
Investment income (loss)		(75,765,225)
Less: investment expense		(3,213,083)
·	•	
Net investment income (loss)		(78,978,308)
Total additions		(11,998,623)
Deductions:		
Administration		1,117,217
Retirement benefits and refunds		56,886,098
Transfers to other systems		2,551,778
3(8)(c) transfer to other systems		3,356,358
Depreciation		11,258
		_
Total deductions		63,922,709
Net increase (decrease) in fiduciary net position		(75,921,332)
Fiduciary net position at beginning of year		705,486,056
Fiduciary net position at end of year	\$	629,564,724

See notes to financial statements.

#### **NOTE 1 – PLAN DESCRIPTION**

Essex Regional Retirement System is a multiple-employer, cost-sharing, contributory defined benefit pension plan covering all employees of governmental member units deemed eligible by the Essex Regional Retirement Board (the Board), with the exception of school department employees who serve in a teaching capacity. The pensions of such school employees are administered by the Commonwealth of Massachusetts' Teachers Retirement System. Membership in the Plan is mandatory immediately upon the commencement of employment for all non-teaching permanent, full time employees. The Plan is administered by the Essex Regional Retirement System (the System). As of December 31, 2022, the System had 46 participating employers.

Originally instituted in 1937, as part of Essex County government, the Board served as the regional retirement system for Essex County upon the abolition of county government in 1996 and the current system structure was created by special legislation in July 2010 (Chapter 34B, Section 19A of the Massachusetts General Laws). The System is governed by a five-member Board who establish the policies under which the System operates. Board members also approve all of the System's financial transactions, including the approval of retirement benefits to members. Board members are appointed or elected as specified by MGL Ch. 34B, Section 19A for terms ranging from 3 to 5 years.

The day-to-day operations of the System are managed by the Executive Director. The legislative body for the System is an Advisory Council consisting of full-time treasurers or other qualified officials of the member units. The Advisory Council meets twice annually and is responsible for supervising and certifying the procedures involved in the election of members to the retirement board.

As of December 31, 2022, the System had 2,096 retirees and beneficiaries, 3,210 active participants and 1,087 inactive participants with a vested right to retirement benefits or to receive a refund of their contributions.

The System is a Massachusetts Contributory Retirement System and is governed by Chapter 32 of the Massachusetts General Laws. The Public Employee Retirement Administration Commission (PERAC) is the state agency responsible for oversight of the Commonwealth's public retirement systems.

Massachusetts Contributory Retirement System benefits are, with certain exceptions, uniform from system to system. The System provides for retirement allowance benefits up to a maximum of 80% of a member's highest three-year average annual rate of regular compensation. For persons who became members on or after April 2, 2012, average salary is the average annual rate of regular compensation received during the five consecutive years that produce the highest average, or, if greater, during the last five years (whether or not consecutive) preceding retirement. Benefit payments are based upon a member's age, length of creditable service, level of compensation, and group classification.

There are three classes of membership in the retirement system: group 1, group 2, and group 4. Group 1 consists of general employees, which includes clerical and administrative positions. Group 2 consists of positions that have been specified as hazardous. Lastly, group 4 consists of police officers, firefighters, and other hazardous positions.

Members become vested after ten years of creditable service. A superannuation retirement allowance may be received upon the completion of 20 years of service or upon reaching the age of 55 with 10 years of service if hired after 1978 and if classified in groups 1 or 2. A person who became a member on or after April 2, 2012, is eligible for a superannuation retirement allowance upon reaching the age of 60 with 10 years of service if in group 1, 50 years of age with 10 years of service if in group 2, and 55 years of age if hired prior to 1978 or if classified in group 4. Normal retirement for most employees occurs at age 65 (except for certain hazardous duty and public safety positions, whose normal retirement is at age 55).

A retirement allowance consists of two parts: an annuity and a pension. A member's accumulated total deductions and the interest they generate constitute the annuity. The differential between the total retirement benefit and the annuity is the pension.

Active members contribute between 5% and 11% of their gross regular compensation. The percentage rate is keyed to the date upon which an employee's membership commences. These deductions are deposited in the Annuity Savings Fund and earn interest at a rate determined by the Public Employee Retirement Administration Commission's (PERAC) actuary. When a member's retirement becomes effective, his/her deductions and related interest are transferred to the Annuity Reserve Fund. Any cost-of-living adjustments granted between 1981 and 1997 and any increase in other benefits imposed by the Commonwealth of Massachusetts' state law during those years are borne by the Commonwealth and are deposited into the Pension Fund. Cost-of-living adjustments granted after 1997 must be approved by the System and all costs are borne by the System.

The pension portion of any retirement benefit is paid from the Pension Fund of the System. The governmental unit employing the member must annually appropriate and contribute the amount of current-year pension assessment.

Administrative expenses, which were previously appropriated from the governmental entities whose employees are members of the System, are now paid from investment income.

Members who become permanently and totally disabled for further duty may be eligible to receive a disability retirement allowance. The amount of benefits to be received in such cases is dependent on several factors, including whether or not the disability is work related, the member's age, years of creditable service, level of compensation, veterans' status and group classification.

Employees who resign from service and who are not eligible to receive a retirement allowance or are under the age of 55 are entitled to request a refund of their accumulated total deductions.

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

#### NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The accompanying financial statements of the Essex Regional Retirement System (ERRS) have been prepared in accordance with accounting principles generally accepted in the United States of America (GAAP). The Governmental Accounting Standards Board (GASB) is the recognized standard-setting body for establishing governmental accounting and financial reporting principles.

ERRS is a special-purpose government engaged only in fiduciary activities. Accordingly, the financial statements are reported using the flow of economic resources measurement focus and use the accrual basis of accounting. Under this method, additions are recorded when earned and deductions are recorded when the liabilities are incurred.

#### Cash and Investments

Cash and cash equivalents are considered to be cash on hand, demand deposits and short-term investments with an original maturity of three months or less from the date of acquisition. Investments are carried at fair value. The fair values were determined by the closing price for those securities traded on national stock exchanges and at the average bid-and-asked quotation for those securities traded in the over-the-counter market. The fair value of private equities are based on management's valuation of estimates and assumptions from information and representations provided by the respective general partners, in the absence of readily ascertainable market

values. Real estate assets are reported at fair value utilizing an income approach to valuation along with independent appraisals and estimates by management.

#### Fair Value Measurements

The System reports required types of financial instruments in accordance with the fair value standards. These standards require an entity to maximize the use of observable inputs (such as quoted prices in active markets) and minimize the use of unobservable inputs (such as appraisals or valuation techniques) to determine fair value. Fair value standards also require the government to classify these financial instruments into a three-level hierarchy, based on the priority of inputs to the valuation technique or in accordance with net asset value practical expedient rules, which allow for either Level 2 or Level 3 depending on lock up and notice periods associated with the underlying funds.

Instruments measured and reported at fair value are classified and disclosed in one of the following categories:

Level 1 – Quoted prices are available in active markets for identical instruments as of the reporting date. Instruments, which are generally included in this category, include actively traded equity and debt securities, U.S. government obligations, and mutual funds with quoted market prices in active markets.

Level 2 – Pricing inputs are other than quoted in active markets, which are either directly or indirectly observable as of the reporting date, and fair value is determined through the use of models or other valuation methodologies. Certain fixed income securities, primarily corporate bonds, are classified as Level 2 because fair values are estimated using pricing models, matrix pricing, or discounted cash flows.

Level 3 – Pricing inputs are unobservable for the instrument and include situations where there is little, if any, market activity for the instrument. The inputs into the determination of fair value require significant management judgment or estimation.

In some instances, the inputs used to measure fair value may fall into different levels of the fair value hierarchy and is based on the lowest level of input that is significant to the fair value measurement.

Market price is affected by a number of factors, including the type of instrument and the characteristics specific to the instrument. Instruments with readily available active quoted prices generally will have a higher degree of market price observability and a lesser degree of judgment used in measuring fair value. It is reasonably possible that change in values of these instruments will occur in the near term and that such changes could materially affect amounts reported in these financial statements. For more information on the fair value of the System's financial instruments see Note 4 – Cash and Investments.

#### Accounts Receivable

Accounts receivable consist of member deductions, employer pension appropriations, and future appropriations from Essex Technical High School for the unfunded actuarial liability for retirees from Essex Agricultural and Technical School, and pension fund appropriations.

These receivables are considered 100% collectible and therefore do not report an allowance for uncollectibles.

#### Deferred Outflows/Inflows of Resources

In addition to assets, the statement of fiduciary net position will sometimes report a separate section for deferred outflows of resources. This separate financial statement element, *deferred outflows of resources*, represents a

consumption of fiduciary net assets that applies to a future period(s) and so will not be recognized as an outflow of resources (deduction) until then. The ERRS did not have any items that qualify for reporting in this category.

In addition to liabilities, the statement of fiduciary net position will sometimes report a separate section for deferred inflows of resources. This separate financial statement element, *deferred inflows of resources*, represents an acquisition of net assets that applies to a future period(s) and so will not be recognized as an inflow of resources (addition) until that time. The ERRS did not have any items that qualify for reporting in this category.

#### **NOTE 3 – PLAN ADMINISTRATION**

The System is administered by a five-person Board of Retirement. The first member shall be a chief executive or chief administrative officer of a member town, unit, or district belonging to the Essex Regional Retirement System for a term of 3 years. This member shall be chosen by weighted vote of the chief executive or chief administrative officers of member towns, units or districts belonging to the Essex Regional Retirement System. The second member shall be a member of the regional retirement board advisory council, and shall be elected by a majority of those present and voting at a public meeting of the council and shall serve for a term of 3 years. The third and fourth members shall be elected by the members in or retired from service of the Essex County Retirement System from among persons retired under the system and shall serve for a term of 3 years. The fifth member, who shall not be an employee, retiree or official of the retirement system, or of any of its constituent governmental units, shall be chosen by the other 4 members and shall serve for a term of 5 years.

First Member	Andrew Sheehan	Term Expires:	12/1/2023
Second Member	Kevin A. Merz	Term Expires:	12/1/2024
Third Member	Susan J. Yaskell	Term Expires:	12/1/2025
Fourth Member	Katherine E. Carleton	Term Expires:	12/1/2025
Fifth Member	Vincent R. Malgeri	Term Expires:	12/11/2025

Board members are required to meet at least once a month. The Board must keep a record of all of its proceedings. The Board must annually submit to the appropriate authority an estimate of the expenses of administration and cost of operation of the System. The Board must annually file a financial statement of condition for the System with PERAC.

The ERRS Advisory Council consists of the full-time treasurers, elected or appointed, for each town, unit or district within the System. The members of the Advisory Council elect the second member of the Board of Retirement as well as a Chair from among its members. The ERRS Advisory Council is required by statute to meet twice per year, typically in the spring and fall. All ERRS Advisory Council meetings are open, public meetings and are subject to the Commonwealth's Open Meeting Law.

The investment of the System's funds is the responsibility of the Board. Disability retirement allowances must be approved by the Retirement Board and are then submitted to the PERAC Actuary for verification prior to payment. Superannuation retirement allowances are not required to obtain PERAC's verification. All expenses incurred by the System must be approved by a majority vote of the Board. Payments shall be made only upon vouchers signed by two persons designated by the Board.

ERRS board members and employees are bonded by an authorized agent representing a company licensed to do business in Massachusetts. The MACRS program for ERRS provides \$50,000,000 fiduciary protection for

Trustees and employees, as well as a \$1,000,000 fidelity policy for crime coverage.

#### **NOTE 4 - CASH AND INVESTMENTS**

#### Custodial Credit Risk - Deposits

At December 31, 2022, the carrying amount of the System's deposits totaled \$6,351,212; this is comprised of \$4,335,952 of cash deposited with banks along with \$2,015,310 in the PRIT Cash Fund. Of the \$4,335,952, the bank balance totaled \$4,665,209, which was covered by Federal Deposit Insurance. The \$2,015,310 of the PRIT Cash Fund is uninsured and uncollateralized.

#### Investments

The System's investments are as follows:

Investment Type	Fair Value
Other Investments: PRIT Pooled Funds\$	617,261,760
Pooled Alternative Investments	2,882,761
Pooled Real Estate Funds	38,039
Total Investments\$	620,182,560

Approximately 99% of the Retirement System's investments are in Pension Reserve Investment Trust (PRIT) Pooled Funds. This investment pool was established by the Treasurer of the Commonwealth of Massachusetts, who serves as Trustee. PRIT is administered by the Pension Reserves Investment Management Board. The fair values of the positions in each investment Pool are the same as the value of each Pool's shares. The Administration does not have the ability to control any of the investment decisions relative to its funds in PRIT.

Approximately 1% of the System's funds are invested in pooled alternative investments and pooled real estate funds. The fair values of assets in those funds are based on the quoted values obtained from each pool.

The Administration's annual money-weighted rate of return on pension plan investments was -11.36%. The money—weighted rate of return expresses investment performance, net of pension plan investment expense, adjusted for the changing amounts actually invested, measured monthly.

#### Fair Value of Investments

The retiree pension defined benefit plan holds significant amounts of investments that are measured at fair value on a recurring basis. Because investing is a key part of the plan's activities, the plan shows greater disaggregation in its disclosures. The plan chooses a tabular format for disclosing the levels within the fair value hierarchy. The System categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles.

The System has the following recurring fair value measurements as of December 31, 2022:

			Fair Value Measurements Using					
Investment Type	12/31/22		Quoted Prices in Active Markets for Identical Assets (Level 1)		Significant Other Observable Inputs (Level 2)		Significant Unobservable Inputs (Level 3)	
Investments by fair value level								
Pooled Alternative Investments\$ Pooled Real Estate Funds	2,882,761 38,039	\$	- -	\$_	-	\$	2,882,761 38,039	
Total Investments by fair value level	2,920,800	\$	_	\$_	-	\$_	2,920,800	
Investments measured at the net asset value (NAV)								
PRIT Investments.	617,261,760	-						
Total Investments\$	620,182,560							

Pooled Alternative Investments and Pooled Real Estate Funds classified in level 3 are valued using either a discounted cash flow or market comparable companies' technique.

PRIT Investments are valued using the net asset value (NAV) method. This investment pool was established by the Treasurer of the Commonwealth of Massachusetts, who serves as Trustee. PRIT is administered by the Pension Reserves Investment Management Board (PRIM). The fair values of the positions in each investment Pool are the same as the value of each Pool's shares. The System does not have the ability to control any of the investment decisions relative to its funds in PRIT.

#### **NOTE 5 - RECEIVABLES**

At December 31, 2022, receivables for the System are as follows:

	Gross Amount	Allowance for Uncollectibles		Net Amount
Receivables:			_	
Member contributions\$	670,829	-	\$	670,829
Essex Agricultural and Technical High School	2,831,299	-		2,831,299
Employer pension appropriation	26,289		-	26,289
Total\$_	3,528,417	\$ <u> </u>	\$	3,528,417

As more fully described in Note 9, the Essex Agricultural and Technical High School receivable consists of the present value of a stream of future payments to be received from Essex Technical High School (Essex Tech), as the successor agency of Essex Agricultural and Technical School from fiscal year 2017 through fiscal year 2033 for the unfunded actuarial liability for its retirees in the Essex Regional Retirement System.

#### **NOTE 6 - CAPITAL ASSETS**

Capital assets are depreciated on a straight-line basis. The estimated useful lives of capital assets are 33 years for buildings.

The capital assets owned by the System consist of two condominiums in Danvers, Massachusetts that were purchased for the administrative offices of the System. Both units were purchased in fiscal year 2000 for a total of \$375,250. Total capital asset activity for the year ended December 31, 2022, was as follows:

	Beginning					Ending
	Balance		Increases	Decreases		Balance
Capital assets being depreciated:  Buildings\$	375,250	\$		\$ 	\$	375,250
Less accumulated depreciation for:  Buildings	(242,047)	•	(11,258)		,	(253,305)
Total governmental activities capital assets, net\$	133,203	\$	(11,258)	\$ 	\$	121,945

#### **NOTE 7 - MEMBERSHIP**

The following table represents the System's membership at December 31, 2022:

Active members	3,210
Inactive members entitled to a return of contributions	1,087
Retired, Beneficiary, and Survivor	2,096
Total	6,393

#### **NOTE 8 – ACTUARIAL VALUATION**

The total pension liability was determined by an actuarial valuation as of January 1, 2022, using the following actuarial assumptions, applied to all periods included in the measurement that was updated to December 31, 2022:

Valuation date	January 1, 2022
Interest on employee contributions	3.50%
Salary increases	Based on years of service, ranging from 7.50% at 0 years of service decreasing to 3.75% after 5 years of service.
Net investment return/Discount rate	7.00%.

Mortality Rates:

RP-2014 Employee Mortality Table projected generationally with Scale MP-2021.

RP-2014 Healthy Annuitant Mortality Table projected generationally with Scale MP-2021.

RP-2014 Healthy Annuitant Mortality Table set forward two years projected generationally with Scale MP-2021.

Components of the net pension liability as of December 31, 2022, were as follows:

Total pension liability\$	1,093,583,722
The pension plan's fiduciary net position	(629,564,724)
The net pension liability\$	464,018,998
The pension plan's fiduciary net position as a percentage of the total pension liability	57.57%

#### Investment Policy

The pension plan's policy in regard to the allocation of invested assets is established by PRIT and the Board. Plan assets are managed on a total return basis with a long-term objective of achieving a fully funded status for the benefits provided through the pension plan.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which expected future real rates of return (expected returns, net of inflation) are developed for each major asset class. These returns 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, adding expected inflation. The target allocation and projected arithmetic real rates of return for each major asset class, after deducting inflation, but before investment expense, used in the derivation of the long-term investment rate of return assumption are summarized in the following table:

	Long-Term Expected	Long-Term Expected
Asset Class	Real Rate of Return	Asset Allocation
Domestic equity	7.10%	21.20%
International developed markets equity	6.90%	12.20%
International emerging markets equity	9.60%	4.70%
Core fixed income	4.70%	13.80%
High-yield fixed income	3.80%	7.00%
Private Equity	10.20%	17.70%
Real estate	5.70%	11.20%
Timberland	7.00%	3.20%
Hedge funds, PCS	6.50%	9.00%
Total Fund Expected Return/Total		100.00%

#### Discount Rate

The discount rates used to measure the total pension liability was 7.00% as of December 31, 2022, and December 31, 2021. The projection of cash flows used to determine the discount rate assumed plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the actuarially determined contribution rates. For this purpose, only employer contributions that are intended to fund benefits for the current plan members and their beneficiaries are included. Projected employer contributions that are intended to fund the service cost for future plan members and their beneficiaries, as well as projected contributions from future plan members, are not included. Based on those assumptions, the plan fiduciary net position was projected to be available to make all projected future benefit payments for 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 as of both December 31, 2022, and December 31, 2021.

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 7.00%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.00%) or 1-percentage-point higher (8.00%) than the current rate.

	Current							
	1.0% Decrease (6.00%)		Discount Rate (7.00%)		1.0% Increase (8.00%)			
Essex Regional Retirement System's net	,	•		-	,			
pension liability as of December 31, 2022 \$	589,439,612	\$	464,018,998	\$	358,708,080			

#### Contributions

Governmental employers are required to pay an annual appropriation as established by PERAC. The total appropriation includes the amounts to pay the pension portion of each member's retirement allowance, an amount to amortize the actuarially determined unfunded liability to zero in accordance with the system's funding schedule, and additional appropriations in accordance with adopted early retirement incentive programs. The pension fund appropriations are allocated amongst employers based on covered payroll.

#### NOTE 9 - ESSEX AGRICULTURAL AND TECHNICAL HIGH SCHOOL

Chapter 463 of the Acts of 2004 created the Essex North Shore Agricultural and Technical School District (Essex Tech). This legislation established Essex Tech as the successor agency to both the Essex Agricultural and Technical High School and the North Shore Vocational Regional School. Prior to July 1, 2014, the non-teacher employees of the Essex Agricultural and Technical High School were members of ERRS. The legislation required that all active and inactive members be transferred to the Salem Contributory Retirement System. Accordingly, as of June 30, 2015, all active and inactive members of ERRS have been transferred to the Salem Contributory Retirement System. Essex Tech, as the successor agency, is required to reimburse ERRS for the actuarially determined liability associated with the retired members from Essex Agricultural and Technical High School who remain with ERRS. Accordingly, PERAC approved a funding schedule that requires Essex Tech to pay ERRS equal annual assessments of \$421,947 through 2033. The \$2,831,299 present value of these payments has been recorded as a receivable by ERRS as of December 31, 2022.

#### **NOTE 10 - COMMITMENTS AND CONTINGENCIES**

Various legal actions and claims are pending against the System. Litigation is subject to many uncertainties, and the outcome of individual litigated matters is not always predictable. Although the amount of liability, if any, at December 31, 2022 cannot be ascertained, management believes any resulting liability should not materially affect the financial position at December 31, 2022.

#### **NOTE 11 – IMPLEMENTATION OF NEW GASB PRONOUNCEMENTS**

There were no GASB pronouncements required to be implemented in 2022 that impacted the System's financial statements.

None of the issued GASB statements that are required to be implemented in future years are anticipated to impact the System's financial statements.

#### **NOTE 12 - SUBSEQUENT EVENTS**

Management has evaluated subsequent events through August 28, 2023, which is the date the financial statements were available to be issued.

# Required Supplementary Information

### SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY AND RELATED RATIOS

Total pension liability:	December 31, 2014	-	December 31, 2015	-	December 31, 2016	December 31, 2017
Service cost\$	10,581,511	\$	14,484,797	\$	15,597,356 \$	16,877,715
Interest	54,243,222	Ψ	56,453,975	Ψ	57,096,460	60,670,085
Changes in benefit terms	-		-		4,350,523	-
Differences between expected and actual experience	_		_		(8,590,424)	(49,644)
Changes in assumptions	_		_		20,216,699	23,073,540
Benefit payments	(38,353,266)		(39,994,008)		(42,130,566)	(44,959,784)
Deficit payments	(00,000,200)	-	(00,004,000)	-	(42,100,000)	(++,555,76+)
Net change in total pension liability	26,471,467		30,944,764		46,540,048	55,611,912
Total pension liability - beginning	684,261,436	-	710,732,903	-	741,677,667	788,217,715
Total pension liability - ending (a)\$	710,732,903	\$	741,677,667	\$	788,217,715 \$	843,829,627
Plan fiduciary net position:						
Employer pension appropriation\$	26,066,222	\$	27,893,676	\$	29,420,144 \$	31,239,783
Member contributions	12,168,827	·	12,491,708	·	12,864,434	13,077,844
Other contributions	3,940,038		7,805,125		4,208,413	3,575,613
Net investment income (loss)	29,322,861		4,103,832		26,406,996	66,258,516
Administrative expenses	(922,351)		(934,672)		(961,143)	(981,979)
Retirement benefits and refunds	(38,353,266)		(39,994,008)		(42,130,565)	(44,959,784)
Other retirement deductions	(5,728,996)		(4,483,236)		(5,202,784)	(3,650,033)
Depreciation	(14,374)		(14,374)	_	(14,374)	(15,554)
Net increase (decrease) in fiduciary net position	26,478,961		6,868,051		24,591,121	64,544,406
Fiduciary net position - beginning of year	344,991,750	-	371,470,711	-	378,338,762	402,929,883
Fiduciary net position - end of year (b)\$	371,470,711	\$	378,338,762	\$	402,929,883 \$	467,474,289
Net pension liability - ending (a)-(b)\$	339,262,192	\$	363,338,905	\$	385,287,832 \$	376,355,338
Plan fiduciary net position as a percentage of the total pension liability	52.27%		51.01%		51.12%	55.40%
Covered payroll\$	123,190,220	\$	128,258,043	\$	133,089,526 \$	130,743,710
Net pension liability as a percentage of covered payroll	275.40%		283.29%		289.50%	287.86%

Note: this schedule is intended to present information for 10 years. Until a 10-year trend is compiled, information is presented for those years for which information is available.

See notes to required supplementary information.

(Continued)

	December 31,	December 31,	December 31,		December 31,	December 31,
	2018	2019	2020		2021	2022
-				_		
\$	17,892,023 \$	18,590,358 \$	22,061,390	\$	21,796,254	\$ 24,330,064
	62,939,560	65,501,353	68,779,712		71,591,950	73,405,591
	-	(2,382,236)	-		10,455,851	_
	-	72,274	-		(13,281,669)	-
	_	35,268,329	-		30,447,273	-
	(46,458,490)	(49,373,946)	(50,998,900)		(53,996,548)	(56,886,098)
-				_		
	34,373,093	67,676,132	39,842,202		67,013,111	40,849,557
	843,829,627	878,202,720	945,878,852		985,721,054	1,052,734,165
-				_		
\$	878,202,720 \$	945,878,852 \$	985,721,054	\$	1,052,734,165	\$ 1,093,583,722
-				=		
\$	33,969,088 \$	36,090,030 \$	38,624,587	\$	41,415,403	\$ 44,519,430
	13,636,998	14,270,165	15,213,826		15,718,789	16,360,071
	4,291,824	3,590,760	5,632,862		5,646,014	6,100,184
	(10,723,393)	71,119,136	61,560,883		114,739,426	(78,978,308)
	(955,252)	(990,011)	(899,416)		(1,009,530)	(1,117,217)
	(46,458,490)	(49,373,946)	(50,998,900)		(53,996,548)	(56,886,098)
	(5,489,442)	(5,869,056)	(4,884,341)		(5,817,405)	(5,908,136)
	(8,520)	(11,258)	(11,258)		(11,258)	(11,258)
-			<u> </u>	_		
	(11,737,187)	68,825,820	64,238,243		116,684,891	(75,921,332)
_	467,474,289	455,737,102	524,562,922		588,801,165	705,486,056
\$	455,737,102 \$	524,562,922 \$	588,801,165	\$	705,486,056	\$ 629,564,724
\$	422,465,618 \$	421,315,930 \$	396,919,889	\$_	347,248,109	\$ 464,018,998
	51.89%	55.46%	59.73%		67.01%	57.57%
\$	136,111,184 \$	144,695,269 \$	150,467,625	\$	153,979,506	\$ 160,021,473
	310.38%	291.17%	263.79%		225.52%	289.97%

(Concluded)

#### SCHEDULE OF CONTRIBUTIONS

	December 31, 2014	December 31, 2015	December 31, 2016	December 31, 2017
Actuarially determined contribution\$	26,066,222	\$ 32,050,432 \$	29,420,338 \$	31,614,412
Contributions in relation to the actuarially determined contribution	(26,066,222)	(32,123,557)	(29,463,314)	(31,663,092)
Contribution deficiency (excess)\$		(73,125)	(42,976) \$	(48,680)
Covered payroll\$	123,190,220	128,258,043 \$	133,089,526 \$	130,743,710
Contributions as a percentage of covered payroll	21.16%	25.05%	22.14%	24.22%

Note: this schedule is intended to present information for 10 years. Until a 10-year trend is compiled, information is presented for those years for which information is available.

See notes to required supplementary information.

(Continued)

-	December 31, 2018	December 31, 2019		December 31, 2020	December 31, 2021	December 31, 2022
\$	33,969,088	\$ 36,150,577	\$	38,624,587	\$ 41,415,403	\$ 44,519,430
-	(33,993,920)	(36,174,754)	•	(38,646,497)	(41,435,342)	(44,562,837)
\$	(24,832)	\$ (24,177)	\$	(21,910)	\$ (19,939)	\$ (43,407)
\$	136,111,184	\$ 144,695,269	\$	150,467,625	\$ 153,979,506	\$ 160,021,473
	24.98%	25.00%		25.68%	26.91%	27.85%

(Concluded)

#### **SCHEDULE OF INVESTMENT RETURNS**

Annual money-weighted rate of return,

	rate of return,
Year	net of investment expense
December 31, 2022	-11.36%
December 31, 2021	19.69%
December 31, 2020	12.14%
December 31, 2019	16.13%
December 31, 2018	-2.43%
December 31, 2017	17.11%
December 31, 2016	7.80%
December 31, 2015	1.04%
December 31, 2014	8.48%

Note: this schedule is intended to present information for 10 years. Until a 10-year trend is compiled, information is presented for those years for which information is available.

See notes to required supplementary information.

#### NOTE A - CHANGES IN THE NET PENSION LIABILITY AND RELATED RATIOS

The Schedule of Changes in the Net Pension Liability and Related Ratios includes the detailed changes in the System's total pension liability, changes in the System's net position, and the ending net pension liability. It also demonstrates the plan's net position as a percentage of the total pension liability and the net pension liability as a percentage of covered payroll.

#### **NOTE B - CONTRIBUTIONS**

Governmental employers are required to pay an annual appropriation as established by PERAC. The total appropriation includes the amounts to pay the pension portion of each member's retirement allowance, an amount to amortize the actuarially determined unfunded liability to zero in accordance with the system's funding schedule, and additional appropriations in accordance with adopted early retirement incentive programs. The total appropriations are payable on July 1 and January 1. Employers may choose to pay the entire appropriation in July at a discounted rate. Accordingly, actual employer contributions may be less than the "total appropriation". The pension fund appropriations are allocated amongst employers based on covered payroll.

#### NOTE C - MONEY-WEIGHTED RATE OF RETURN

The money-weighted rate of return is calculated as the internal rate of return on pension plan investments, net of pension plan investment expense. A money weighted rate of return expresses investment performance, net of pension plan investment expense, adjusted for the changing amounts actually invested. Inputs to the money weighted rate of return calculation are determined monthly.

#### NOTE D - CHANGES IN ACTUARIAL ASSUMPTIONS AND PLAN PROVISIONS

Actuarial Assumptions:	
None.	
Plan Provisions:	
None.	

# Audit of Specific Elements, Accounts and Items of Financial Statements



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#### **Independent Auditor's Report**

To the Honorable Essex Regional Retirement Board Essex Regional Retirement System Danvers, Massachusetts

## Report on the Audit of the Schedule of Employer Allocations and Schedule of Pension Amounts by Employer

#### **Opinions**

We have audited the accompanying schedule of employer allocations of the Essex Regional Retirement System (ERRS) as of and for the year ended December 31, 2022, and the related notes. We have also audited the total for all entities of the rows titled net pension liability, total deferred outflows of resources, total deferred inflows of resources, total contributions and total pension expense included in the accompanying schedule pension amounts by employer of the ERRS's Pension Plan as of and for the year ended December 31, 2022, and the related notes.

In our opinion, the accompanying schedule of employer allocations and schedule of pension amounts by employer present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources, total deferred inflows of resources, total contributions and total pension expense for the total of all participating entities for the ERRS as of and for the year ended December 31, 2022, in accordance with accounting principles generally accepted in the United States of America.

#### **Basis for Opinions**

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Schedules section of our report. We are required to be independent of the ERRS and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

#### Responsibilities of Management for the Schedules

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

#### Auditor's Responsibilities for the Audit of the Schedules

Our objectives are to obtain reasonable assurance about whether the schedule of employer allocations and the specified row totals included in the schedule of pension amounts by employer as a whole are free from material

misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with general accepted auditing standards, will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgement made by a reasonable user based on the schedules.

In performing an audit in accordance with generally accepted auditing standards we:

- Exercise professional judgement and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the schedules, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the schedules.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are
  appropriate in the circumstances, but not for the purposes of expressing an opinion on the effectiveness of the
  ERRS's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the schedules.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

#### **Other Matter**

We have audited, in accordance with auditing standards generally accepted in the United States of America and *Government Auditing Standards*, the financial statements of the ERRS as of and for the year ended December 31, 2022, and our report thereon, dated August 28, 2023, expressed an unmodified opinion on those financial statements.

#### **Restriction on Use**

This report is intended solely for the information and use of the ERRS management, the ERRS employers and their auditors and is not intended to be and should not be used by anyone other than these specified parties.

August 28, 2023

Powers & Sullivan LLC

#### SCHEDULE OF EMPLOYER ALLOCATIONS

#### FOR THE YEAR ENDED DECEMBER 31, 2022

Employer	2023 Pension Fund Appropriation	Current Direct E.R.I./CRAB Appropriation	FY2023 Total Appropriation	Remaining Direct E.R.I./CRAB Liability	Allocated Net Pension Liability	Share of Net Pension Liability including E.R.I.	Percent of Total Net Pension Liability including E.R.I.
Retirement Board\$	155,604 \$		\$ 155,604	\$ -	\$ 1,622,652	\$ 1,622,652	0.350%
Town of Boxford	1,551,592	-	1,551,592	-	16,180,133	16,180,133	3.487%
Town of Essex	760,236		760,236		7,927,806	7,927,806	1.709%
Town of Georgetown	2,294,045		2,294,045		23,922,491	23,922,491	5.155%
Town of Groveland	1,026,985	9,399	1,036,384	46,537	10,709,487	10,756,024	2.318%
Town of Hamilton	1,231,493	-	1,231,493	-	12,842,114	12,842,114	2.768%
Town of Ipswich	4,668,114	_	4,668,114	_	48,679,490	48,679,490	10.491%
Town of Lynnfield	3,445,513	_	3,445,513	_	35,930,103	35,930,103	7.743%
Town of Manchester-by-the-Sea	1,564,930	_	1,564,930	_	16,319,223	16,319,223	3.517%
Town of Merrimac	1,062,552	_	1,062,552	_	11,080,383	11,080,383	2.388%
Town of Middleton	2,338,503	_	2,338,503	_	24,386,108	24,386,108	5.255%
Town of Nahant	969,189	_	969,189	_	10,106,785	10,106,785	2.178%
Town of Newbury	960.298	_	960.298		10.014.069	10.014.069	2.158%
Town of North Andover	6,953,268		6,953,268		72,509,270	72,509,270	15.626%
Town of Rockport	2,187,345		2,187,345	_	22.809.820	22.809.820	4.916%
Town of Rowley	1,320,409	_	1,320,409		13,769,337	13,769,337	2.967%
Town of Salisbury	2,018,404	_	2,018,404		21,048,089	21,048,089	4.536%
Town of Topsfield	1,547,146	-	1,547,146	_	16,133,770	16,133,770	3.477%
Town of Wenham	933,623		933,623	-	9,735,900	9,735,900	2.098%
Town of West Newbury	866,935		866,935	_	9,040,472	9,040,472	1.948%
East Essex Veterans District	35,567	-	35.567	-	370.896	370.896	0.080%
Byfield Water District	31,121	-	31,121	-	324,532	324,532	0.070%
Lynnfield Center Water District	213,400	-	213,400	-	2,225,353	2,225,353	0.480%
Lynnfield Water District	106,700	-	106.700	-	1,112,677	1.112.677	0.460%
NE Massachusetts Mosquito Control District		-	200,062	-	2,086,264	2,086,264	0.450%
	200,062	-		-			2.358%
Hamilton-Wenham Regional School	1,049,214	40.004	1,049,214	400.450	10,941,293	10,941,293	
Manchester-Essex Regional School	649,090	18,904	667,994	166,456	6,768,766	6,935,222	1.495%
Masconomet Regional School	862,490	-	862,490	-	8,994,119	8,994,119	1.938% 2.708%
Pentucket Regional School	1,204,818	-	1,204,818	-	12,563,945	12,563,945	
Triton Regional School	1,493,797	-	1,493,797	-	15,577,442	15,577,442	3.357%
Essex Housing Authority	17,783	-	17,783	-	185,443	185,443	0.040%
Georgetown Housing Authority	71,133	-	71,133	-	741,781	741,781	0.160%
Groveland Housing Authority	22,229	-	22,229	-	231,806	231,806	0.050%
Hamilton Housing Authority	17,783	-	17,783	-	185,443	185,443	0.040%
Ipswich Housing Authority	200,062	-	200,062	-	2,086,264	2,086,264	0.450%
Lynnfield Housing Authority	17,783	-	17,783	-	185,443	185,443	0.040%
Manchester Housing Authority	35,567	-	35,567	-	370,896	370,896	0.080%
Merrimac Housing Authority	13,337	-	13,337	-	139,079	139,079	0.030%
Middleton Housing Authority	22,229	-	22,229	-	231,806	231,806	0.050%
Nahant Housing Authority	13,337	10,120	23,457	50,110	139,079	189,189	0.041%
North Andover Housing Authority	164,495	-	164,495	-	1,715,368	1,715,368	0.370%
Rockport Housing Authority	71,133		71,133	-	741,781	741,781	0.160%
Rowley Housing Authority	17,783	16,092	33,875	141,692	185,443	327,135	0.071%
Salisbury Housing Authority	17,783	-	17,783	-	185,443	185,443	0.040%
Topsfield Housing Authority	17,783	-	17,783	-	185,443	185,443	0.040%
Wenham Housing Authority	35,567		35,567		370,896	370,896	0.080%
Total\$	44,458,230 \$	54,515	\$ 44,512,745	\$ 404,795	\$ 463,614,203	\$ 464,018,998	100.000%

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

#### SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

#### FOR THE YEAR ENDED DECEMBER 31, 2022

	_	Retirement Board		Town of Boxford	_	Town of Essex	 Town of Georgetown
Net Pension Liability							
Beginning net pension liability	\$	971,087	\$	12,762,825	\$	5,791,821	\$ 17,826,335
Ending net pension liability	\$	1,622,652	\$	16,180,133	\$	7,927,806	\$ 23,922,491
<u>Deferred Outflows of Resources</u> Differences between expected and actual experience	\$	51	\$	504	\$	247	\$ 744
Net difference between projected and actual investment earnings on pension plan investments		150,464		1,500,340		735,124	2,218,267
Changes of assumptions		88,550		882,968		432,629	1,305,475
Changes in proportion and differences between employer contributions and proportionate share of contributions		221 012				142,745	478,945
					-		 
Total Deferred Outflows of Resources	\$_	460,977	\$	2,383,812	\$_	1,310,745	\$ 4,003,431
<u>Deferred Inflows of Resources</u> Differences between expected and actual experience	\$	27,867	\$	277,876	\$	136,151	\$ 410,839
Changes in proportion and differences between employer contributions and proportionate		-					
share of contributions	_	166,935		741,766	-	113,893	 1,029
Total Deferred Inflows of Resources	\$_	194,802	\$	1,019,642	\$ _	250,044	\$ 411,868
Pension Expense Proportionate share of plan pension expense	\$	181,248	\$	1,807,358	\$	885,561	\$ 2,672,201
Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions		(16,006)		(171,729)		(46,850)	35,330
Total Employer Pension Expense	\$_	165,242	\$	1,635,629	\$_	838,711	\$ 2,707,531
Contributions Statutory required contribution	\$	155,604	\$	1,551,592	\$	760,236	\$ 2,294,045
Contribution in relation to statutory required contribution	_	(155,604)	_	(1,556,153)	_	(760,236)	 (2,294,045)
Contribution deficiency/(excess)	\$_	-	\$	(4,561)	\$_	-	\$ 
Contributions as a percentage of covered payroll		27.78%		27.86%		27.78%	27.78%
Deferred (Inflows)/Outflows Recognized in Future Pension Expense							
June 30, 2024		10,956	\$	96,617	\$	157,337	\$ 730,993
June 30, 2025		42,755 67,155		162,421 358,344		148,253 284,279	741,452 778,090
June 30, 2027		145,309		746,788		470,832	1,341,028
Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense	\$	266,175	\$	1,364,170	\$	1,060,701	\$ 3,591,563
Discount Rate Sensitivity 1% decrease (6.00%)	\$	2,061,242	\$	20,553,493	\$	10,070,628	\$ 30,388,550
Current discount rate (7.00%)	\$	1,622,652	\$	16,180,133	\$	7,927,806	\$ 23,922,491
1% increase (8.00%)	\$	1,254,385	\$	12,507,989	\$	6,128,560	\$ 18,493,187
Covered Payroll	\$	560,075	\$	5,584,749	\$	2,736,367	\$ 8,257,108
See notes to schedule of employer allocations and schedule of pension amounts by employer.							(continued)

#### SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

#### FOR THE YEAR ENDED DECEMBER 31, 2022

	-	Town of Groveland		Town of Hamilton	-	Town of lpswich		Town of Lynnfield
Net Pension Liability					_		_	
Beginning net pension liability	\$	7,856,180	\$	9,745,523	\$	37,317,381	\$	26,392,684
Ending net pension liability	\$	10,756,024	\$	12,842,114	\$	48,679,490	\$	35,930,103
<u>Deferred Outflows of Resources</u> Differences between expected and actual experience	\$	335	\$	400	\$	1,516	\$	1,119
Net difference between projected and actual investment earnings on pension plan investments		997,377		1,190,815		4,513,919		3,331,702
Changes of assumptions		586,968		700,808		2,656,494		1,960,746
Changes in proportion and differences between employer contributions and proportionate		224 025		101 207		929 205		449.444
share of contributions	-	231,025	-	191,307	-	828,295		448,444
Total Deferred Outflows of Resources	\$_	1,815,705	\$	2,083,330	\$	8,000,224	\$	5,742,011
<u>Deferred Inflows of Resources</u> Differences between expected and actual experience	\$	184,723	\$	220,549	\$	836,015	\$	617,059
Changes in proportion and differences between employer contributions and proportionate share of contributions		24 525		160 700		902 922		709,578
Share of contributions	-	21,525	-	168,782	-	803,832		709,576
Total Deferred Inflows of Resources	\$ _	206,248	\$	389,331	\$	1,639,847	\$	1,326,637
Pension Expense Proportionate share of plan pension expense	\$	1,201,474	\$	1,434,500	\$	5,437,620	\$	4,013,482
Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	_	73,287		167,484	_	149,781		(159,940)
Total Employer Pension Expense	\$	1,274,761	\$	1,601,984	\$	5,587,401	\$	3,853,542
Contributions	_		_		_		_	0.445.540
Statutory required contribution	\$	1,036,384	\$	1,231,493	\$	4,668,114	\$	3,445,513
Contribution in relation to statutory required contribution	_			(1,231,493)	-	(4,683,959)		(3,445,513)
Contribution deficiency/(excess)	\$ _		\$		\$	(15,845)	\$	
Contributions as a percentage of covered payroll		28.04%		27.78%		27.88%		27.78%
Deferred (Inflows)/Outflows Recognized in								
Future Pension Expense June 30, 2024	•	202.044	•	077 570	•	4 000 405	•	447.054
June 30, 2025	ф	302,014 287,148	Ф	277,578 295,217		1,220,195 1,080,778	Ф	447,051 723,338
June 30, 2026		380,083		441,479		1,565,464		1,143,782
June 30, 2027		640,212		679,725		2,493,940		2,101,203
Total Deferred (Inflows)/Outflows Recognized in	_	4 000 457	_	4 000 000	_	0.000.033	_	
Future Pension Expense	\$ =	1,609,457	\$	1,693,999	\$	6,360,377	\$	4,415,374
Discount Rate Sensitivity								
1% decrease (6.00%)	\$	13,663,291	\$	16,313,234	\$	61,837,166	\$	45,641,722
Current discount rate (7.00%)	\$	10,756,024	\$	12,842,114	\$	48,679,490	\$	35,930,103
1% increase (8.00%)	\$	8,314,902	\$	9,927,546	\$	37,631,490	\$	27,775,626
Covered Payroll	\$	3,696,496	\$	4,432,595	\$	16,802,255	\$	12,401,664
See notes to schedule of employer allocations and schedule of pension amounts by employer.								(continued)

#### SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

#### FOR THE YEAR ENDED DECEMBER 31, 2022

	-	Town of Manchester- by-the-Sea	-	Town of Merrimac	-	Town of Middleton		Town of Nahant
Net Pension Liability								
Beginning net pension liability	\$	12,242,595	\$	8,531,666	\$	19,109,550	\$	7,421,858
Ending net pension liability	\$	16,319,223	\$	11,080,383	\$	24,386,108	\$	10,106,785
<u>Deferred Outflows of Resources</u> Differences between expected and actual experience	\$	508	\$	345	\$	760	\$	315
Net difference between projected and actual investment earnings on pension plan investments		1,513,238		1,027,454		2,261,259		937,175
Changes of assumptions		890,558		604,669		1,330,777		551,538
Changes in proportion and differences between								
employer contributions and proportionate								
share of contributions		191,166		229,730	-	885,602		128,104
Total Deferred Outflows of Resources	\$	2,595,470	\$	1,862,198	\$	4,478,398	\$	1,617,132
Deferred Inflows of Resources								
Differences between expected and actual experience	\$	280,264	\$	190,293	\$	418,804	\$	173,573
Changes in proportion and differences between								
employer contributions and proportionate		400.000		500 440		000 770		050.00
share of contributions				508,419	-	899,772		656,009
Total Deferred Inflows of Resources	\$	386,487	\$	698,712	\$	1,318,576	\$	829,58
Pension Expense								
Proportionate share of plan pension expense	\$	1,822,902	\$	1,237,711	\$	2,723,992	\$	1,128,95
Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions		108,708		(48,867)		20,604		(277,36
contributions and proportionate snare of contributions		100,700	-	(40,007)	-	20,004		(211,30
Total Employer Pension Expense	\$	1,931,610	\$	1,188,844	\$	2,744,596	\$	851,58
Contributions								
Statutory required contribution	\$	1,564,930	\$	1,062,552	\$	2,338,503	\$	969,18
Contribution in relation to statutory required contribution		(1,564,930)		(1,062,552)	-	(2,343,081)		(969,18
Contribution deficiency/(excess)	\$	-	\$		\$	(4,578)	\$	
Contributions as a percentage of covered payroll		27.78%		27.78%		27.84%		27.78
Deferred (Inflows)/Outflows Recognized in								
Future Pension Expense	•	250 250	ď	250,904	æ	EE0 202	¢.	(41.75
June 30, 2024		358,258 378,605	\$	152,503	\$	550,293 683,490	\$	(41,75) 11,97
June 30, 2026.		576,027		201,697		772,177		225,794
June 30, 2027		896,093		558,382		1,153,862		591,53
Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense	\$	2,208,983	\$	1,163,486	\$	3,159,822	\$	787,55
,	•	,	• •	,	-		7	- ,,,-
Discount Rate Sensitivity 1% decrease (6.00%)	\$	20,730,178	\$	14,075,322	\$	30,977,477	\$	12,838,56
Current discount rate (7.00%)	\$	16,319,223	\$	11,080,383	\$	24,386,108	\$	10,106,78
1% increase (8.00%)	\$	12,615,512	\$	8,565,647	\$	18,851,586	\$	7,813,01
Covered Payroll	\$	5,632,756	\$	3,824,513	\$	8,417,129	\$	3,488,468
Covered Payroll  See notes to schedule of employer allocations and schedule of pension amounts by employer.	\$	5,632,756	\$	3,824,513	\$	8,417,129	\$	3,488 (conti

	_	Town of Newbury	,	Town of North Andover	-	Town of Rockport		Town of Rowley
Net Pension Liability								
Beginning net pension liability	\$	7,421,858	\$	52,681,327	\$	17,028,658	\$	9,988,296
Ending net pension liability	\$	10,014,069	\$	72,509,270	\$	22,809,820	\$	13,769,337
<u>Deferred Outflows of Resources</u> Differences between expected and actual experience	\$	312	\$	2,259	\$	711	\$	429
Net difference between projected and actual investment earnings on pension plan investments		928,578		6,723,591		2,115,094		1,276,794
Changes of assumptions		546,479		3,956,911		1,244,757		751,408
Changes in proportion and differences between employer contributions and proportionate								
share of contributions	-	158,791		1,549,031	-	60,540		609,975
Total Deferred Outflows of Resources	\$_	1,634,160	\$	12,231,792	\$	3,421,102	\$	2,638,606
Deferred Inflows of Resources								
Differences between expected and actual experience	\$	171,980	\$	1,245,265	\$	391,733	\$	236,473
Changes in proportion and differences between employer contributions and proportionate								
share of contributions	-	3,128		805,861	-	370,859		38,673
Total Deferred Inflows of Resources	\$	175,108	\$	2,051,126	\$	762,592	\$	275,146
Pension Expense								
Proportionate share of plan pension expense	\$	1,118,599	\$	8,099,457	\$	2,547,914	\$	1,538,067
Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions		192.702		219,914		(483,265)		171,702
Total Employer Pension Expense	\$	1,311,301	\$	8,319,371	\$	2,064,649	\$	1,709,769
Contributions								
Statutory required contribution	\$	960,298	\$	6,953,268	\$	2,187,345	\$	1,320,409
Contribution in relation to statutory required contribution	-	(960,298)		(6,963,588)	-	(2,190,649)		(1,320,409
Contribution deficiency/(excess)	\$_		\$	(10,320)	\$	(3,304)	\$	
Contributions as a percentage of covered payroll		27.78%		27.82%		27.82%		27.78%
Deferred (Inflows)/Outflows Recognized in								
Future Pension Expense	_	070 045	_	4 507 400	_	005.450	_	400.000
June 30, 2024	\$	272,345	\$	1,597,489	\$	225,150	\$	433,329
June 30, 2025		257,237 358,902		1,545,723 2,662,435		417,848 743,374		482,189 613,931
June 30, 2027		570,568		4,375,019		1,272,138		834,011
Total Deferred (Inflows)/Outflows Recognized in	-	370,300		4,373,013	-	1,272,130		034,011
Future Pension Expense	\$	1,459,052	\$	10,180,666	\$	2,658,510	\$	2,363,460
Discount Rate Sensitivity								
1% decrease (6.00%)	\$	12,720,792	\$	92,107,944	\$	28,975,131	\$	17,491,078
Current discount rate (7.00%)	\$	10,014,069	\$	72,509,270	\$	22,809,820	\$	13,769,337
1% increase (8.00%)	\$	7,741,337	\$	56,053,009	\$	17,633,043	\$	10,644,332
Covered Payroll	\$	3,456,464	\$	25,027,357	\$	7,873,056	\$	4,752,638
See notes to schedule of employer allocations and schedule of pension amounts by employer.								(continued)

FOR THE YEAR	EINL	DED DECEMB	EK.	31, 2022				
	-	Town of Salisbury		Town of Topsfield	_	Town of Wenham	. <u>-</u>	Town of West Newbury
Net Pension Liability								
Beginning net pension liability	\$	15,467,987	\$	11,999,831	\$	7,387,175	\$	6,797,588
Ending net pension liability	\$	21,048,089	\$	16,133,770	\$	9,735,900	\$	9,040,472
<u>Deferred Outflows of Resources</u>								
Differences between expected and actual experience	\$	656	\$	503	\$	303	\$	282
Net difference between projected and actual investment earnings on pension plan investments		1,951,733		1,496,041		902,784		838,299
Changes of assumptions		1,148,618		880,438		531,299		493,349
Changes in proportion and differences between employer contributions and proportionate		540.047		047.470		10 711		100.050
share of contributions	٠ -	542,217		317,179	-	12,714	-	100,059
Total Deferred Outflows of Resources	\$	3,643,224	\$	2,694,161	\$	1,447,100	\$	1,431,989
<u>Deferred Inflows of Resources</u> Differences between expected and actual experience	\$	361,477	\$	277,079	\$	167,203	\$	155,260
Changes in proportion and differences between								
employer contributions and proportionate share of contributions		-		191,061	_	109,714		128,796
Total Deferred Inflows of Resources	\$_	361,477	\$	468,140	\$	276,917	\$	284,056
Pension Expense Proportionate share of plan pension expense	\$	2,351,125	\$	1,802,177	\$	1,087,527	\$	1,009,841
Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	_	592,129		63,823	_	(40,434)		86,439
Total Employer Pension Expense	\$_	2,943,254	\$	1,866,000	\$ _	1,047,093	\$	1,096,280
Cantributions								
Contributions Statutory required contribution	\$	2,018,404	\$	1,547,146	\$	933,623	\$	866,935
Contribution in relation to statutory required contribution				(1,551,945)	·	(933,623)	•	(866,935)
				<u> </u>	•	,		(000,000)
Contribution deficiency/(excess)	· \$ <u>-</u>		\$	(4,799)	<b>\$</b>		\$	-
Contributions as a percentage of covered payroll		27.78%		27.87%		27.78%		27.78%
<u>Deferred (Inflows)/Outflows Recognized in</u> Future Pension Expense								
June 30, 2024	\$	742,460	\$	440,907	\$	172,642	\$	167,186
June 30, 2025	-	567,980	•	407,166	•	195,502	•	174,235
June 30, 2026		742,002		467,417		286,466		313,628
June 30, 2027	_	1,229,305		910,531	_	515,573		492,884
Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense	\$_	3,281,747	\$	2,226,021	\$_	1,170,183	\$	1,147,933
Discount Date Considirate.	=							
Discount Rate Sensitivity 1% decrease (6.00%)	\$	26,737,219	\$	20,494,599	\$	12,367,436	\$	11,484,039
Current discount rate (7.00%)	. \$	21,048,089	\$	16,133,770	\$	9,735,900	\$	9,040,472
1% increase (8.00%)	\$	16,271,143	\$	12,472,148	\$	7,526,300	\$	6,988,702
Covered Payroll	\$	7,264,975	\$	5,568,747	\$	3,360,451	\$	3,120,419
See notes to schedule of employer allocations and schedule of pension amounts by employer.								(continued)

	East Essex Veterans District		Byfield Water District	_	Lynnfield Center Water District		Lynnfield Water District
Net Pension Liability							
Beginning net pension liability\$	312,139	\$	242,773	\$	1,456,630	\$	832,360
Ending net pension liability\$	370,896	\$	324,532	\$	2,225,353	\$	1,112,677
Deferred Outflows of Resources	40		40				
Differences between expected and actual experience \$	12	\$	10	\$	69	\$	35
Net difference between projected and actual	24 202		20.002		206.351		103,176
investment earnings on pension plan investments	34,392		30,093		200,351		103,176
Changes of assumptions	20,240		17,710		121,440		60,720
Changes in proportion and differences between							
employer contributions and proportionate share of contributions	15,722		48		476,673		39,31
				-	· ·	-	·
Total Deferred Outflows of Resources\$	70,366	\$_	47,861	\$ _	804,533	\$	203,248
<u>Deferred Inflows of Resources</u>		_		_			40.40
Differences between expected and actual experience \$	6,370	\$	5,573	\$	38,218	\$	19,109
Changes in proportion and differences between							
employer contributions and proportionate share of contributions	55,636		128		_		34
Total Deferred Inflows of Resources\$		_	5,701	•	38,218	•	19,44
- τοια: Σοιοι οα πιιοιο οι ποσοαίοσο	02,000	Ψ=	0,101	Ψ=	00,210	Ψ	10,11
Pension Expense Proportionate share of plan pension expense\$	41,428	e	36,250	¢.	248,576	ď	104.00
Froportionate share of plan pension expense	41,420	φ	30,230	φ	240,370	Φ	124,28
Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	(15,402)		(66)	_	165,882		23,05
Total Employer Pension Expense\$	26,026	\$_	36,184	\$_	414,458	\$	147,34
Contributions							
Statutory required contribution\$	35,567	\$	31,121	\$	213,400	\$	106,70
Contribution in relation to statutory required contribution	(35.567)		(31,121)		(213,400)		(106,70
				-	(210,100)	-	(100,70
Contribution deficiency/(excess)\$		\$_		\$ _	-	\$	
Contributions as a percentage of covered payroll	27.78%		27.78%		27.78%		27.78
Deferred (Inflows)/Outflows Recognized in							
Future Pension Expense June 30, 2024\$	(233)	s	6,794	\$	205,553	\$	46,55
June 30, 2025	59	•	7,046	•	199,617	Ψ.	32,15
June 30, 2026	(4,095)		10,342		190,368		43,44
June 30, 2027	12,629	_	17,978		170,777		61,63
Total Deferred (Inflows)/Outflows Recognized in							
Future Pension Expense\$	8,360	\$ _	42,160	\$ _	766,315	\$	183,79
Discount Rate Sensitivity	4=4.47=	•	440.055	•	0.000.01-	•	4 440 (=
1% decrease (6.00%)\$	471,146	\$	412,250	\$	2,826,848	\$	1,413,425
Current discount rate (7.00%)\$	370,896	\$	324,532	\$	2,225,353	\$	1,112,677
1% increase (8.00%)\$	286,720	\$	250,878	\$	1,720,300	\$	860,151
Covered Payroll\$	128,017	\$	112,015	\$	768,103	\$	384,052
See notes to schedule of employer allocations and schedule							
of pension amounts by employer.							(continue
Covered Payroll\$  See notes to schedule of employer allocations and schedule							384

FOR THE YEAR E		NE MA Hamilton- Manchester-						
	- 1	Mosquito		Wenham		Essex		Masconomet
		Control		Regional		Regional		Regional
		District	-	School		School		School
Net Pension Liability								
Beginning net pension liability	\$	1,734,078	\$	9,017,212	\$	5,029,673	\$	6,970,995
Ending net pension liability	\$	2,086,264	\$	10,941,293	\$	6,935,222	\$	8,994,119
<u>Deferred Outflows of Resources</u>								
Differences between expected and actual experience	\$	65	\$	341	\$	216	\$	280
Net difference between projected and actual		100 151				0.40.00=		
investment earnings on pension plan investments		193,454		1,014,557		643,085		834,001
Changes of assumptions		113,850		597,078		378,463		490,819
Changes in proportion and differences between								
employer contributions and proportionate		400.077				0.45.040		407.070
share of contributions		129,677	-	<u> </u>		345,840	•	197,670
Total Deferred Outflows of Resources	\$	437,046	\$	1,611,976	\$	1,367,604	\$	1,522,770
<u>Deferred Inflows of Resources</u>					_			
Differences between expected and actual experience	\$	35,829	\$	187,904	\$	119,105	\$	154,464
Changes in proportion and differences between								
employer contributions and proportionate share of contributions		318,366		1,051,368		206,192		223,288
			-		•	200,192	•	223,200
Total Deferred Inflows of Resources	\$	354,195	\$	1,239,272	\$	325,297	\$	377,752
Pension Expense								
Proportionate share of plan pension expense	\$	233,043	\$	1,222,166	\$	774,683	\$	1,004,672
Net amortization of deferred amounts from changes								
in proportion and differences between employer								
contributions and proportionate share of contributions		(62,010)	-	(339,890)		(146,957)		168,545
Total Employer Pension Expense	\$	171,033	\$	882,276	\$	627,726	\$	1,173,217
Contributions								
Statutory required contribution	\$	200,062	\$	1,049,214	\$	667,994	\$	862,490
Contribution in relation to statutory required contribution		(200,062)	-	(1,049,214)		(667,994)		(862,490)
Contribution deficiency/(excess)	\$	-	\$		\$	-	\$	-
Contributions as a percentage of covered payroll		27.78%	-	27.78%		28.59%		27.78%
		21.1070		27.7070		20.53 //		21.1070
Deferred (Inflows)/Outflows Recognized in								
Future Pension Expense June 30, 2024	\$	70,047	\$	(57,317)	\$	149,803	\$	219,307
June 30, 2025	Ψ	(58,086)	Ψ	(48,724)	Ψ	250,606	Ψ	195,778
June 30, 2026		(5,093)		62,661		220,979		287,121
June 30, 2027		75,983		416,084		420,919		442,812
Total Deferred (Inflows)/Outflows Recognized in		,	-					•
Future Pension Expense	\$	82,851	\$	372,704	\$	1,042,307	\$	1,145,018
Discount Rate Sensitivity								
1% decrease (6.00%)	\$	2,650,164	\$	13,898,637	\$	8,809,757	\$	11,425,157
Current discount rate (7.00%)	\$	2,086,264	\$	10,941,293	\$	6,935,222	\$	8,994,119
1% increase (8.00%)	\$	1,612,778	\$	8,458,124	\$	5,361,246	\$	6,952,869
Covered Payroll	\$	720,097	\$	3,776,507	\$	2,336,314	\$	3,104,417
Our refer to select to of courts								
See notes to schedule of employer allocations and schedule of pension amounts by employer.								(continued)
								,

		Pentucket Regional School		Triton Regional School	_	Essex Housing Authority		Georgetown Housing Authority
Net Pension Liability								
Beginning net pension liability	\$	9,572,116	\$	11,167,470	\$	173,407	\$	589,587
Ending net pension liability	\$	12,563,945	\$	15,577,442	\$	185,443	\$	741,781
<u>Deferred Outflows of Resources</u>								
Differences between expected and actual experience	\$	391	\$	485	\$	6	\$	23
Net difference between projected and actual investment earnings on pension plan investments		1,165,021		1,444,455		17,196		68,783
Changes of assumptions		685,628		850,078		10,120		40,480
Changes in proportion and differences between								
employer contributions and proportionate								
share of contributions		122,374		839,223	_	23,973		79,640
Total Deferred Outflows of Resources	. \$	1,973,414	\$	3,134,241	\$_	51,295	\$	188,926
Deferred Inflows of Resources								
Differences between expected and actual experience	\$	215,772	\$	267,525	\$	3,185	\$	12,739
Changes in proportion and differences between								
employer contributions and proportionate								
share of contributions		979,532		23,545	-	31,711		149,788
Total Deferred Inflows of Resources	\$	1,195,304	\$	291,070	\$ _	34,896	\$	162,527
Pension Expense								
Proportionate share of plan pension expense	. \$	1,403,425	\$	1,740,040	\$	20,714	\$	82,855
Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions		(412,268)		(56,358)	-	86		(51)
Total Employer Pension Expense	\$	991,157	\$	1,683,682	\$_	20,800	\$	82,804
Contributions Statutory required contribution	\$	1,204,818	\$	1,493,797	\$	17,783	\$	72,397
, ,			•		•	,		
Contribution in relation to statutory required contribution		(1,204,818)		(1,493,797)	-	(17,783)		(72,397)
Contribution deficiency/(excess)	. \$		\$		\$ _	-	\$	
Contributions as a percentage of covered payroll		27.78%		27.78%		27.78%		28.28%
Deferred (Inflows)/Outflows Recognized in								
Future Pension Expense	_	(7.700)	_	505.000	_	0.057	_	0.070
June 30, 2024 June 30, 2025	. \$	(7,720)	\$	565,602	\$	3,957	\$	8,073
June 30, 2026.	•	32,515 96,918		600,671 703,138		4,101 5,985		8,652 (23,753)
June 30, 2027		656,397		973,760		2,356		33,427
Total Deferred (Inflows)/Outflows Recognized in					-	,		,
Future Pension Expense	. \$	778,110	\$	2,843,171	\$ _	16,399	\$	26,399
Discount Rate Sensitivity								
1% decrease (6.00%)	. \$	15,959,879	\$	19,787,900	\$	235,567	\$	942,278
Current discount rate (7.00%)	. \$	12,563,945	\$	15,577,442	\$	185,443	\$	741,781
1% increase (8.00%)	\$	9,712,509	\$	12,042,081	\$	143,356	\$	573,431
Covered Payroll	\$	4,336,582	\$	5,376,721	\$	64,009	\$	256,034
See notes to schedule of employer allocations and schedule of pension amounts by employer.								(continued)

	-	Groveland Housing Authority		Hamilton Housing Authority	-	Ipswich Housing Authority		Lynnfield Housing Authority
Net Pension Liability								
Beginning net pension liability	\$	173,407	\$	138,724	\$	1,525,988	\$	138,724
Ending net pension liability.	\$	231,806	\$	185,443	\$	2,086,264	\$	185,443
<u>Deferred Outflows of Resources</u>		_		_				
Differences between expected and actual experience	\$	7	\$	6	\$	65	\$	6
Net difference between projected and actual investment earnings on pension plan investments		21,495		17,196		193,454		17,196
Changes of assumptions		12,650		10,120		113,850		10,120
Changes in proportion and differences between								
employer contributions and proportionate share of contributions		32		405		228,344		8,004
State of Contributions	•	32		403	-	220,344	-	0,004
Total Deferred Outflows of Resources	\$	34,184	\$	27,727	\$	535,713	\$	35,326
<u>Deferred Inflows of Resources</u> Differences between expected and actual experience	\$	3,981	\$	3,185	\$	35,829	\$	3,185
Changes in proportion and differences between								
employer contributions and proportionate share of contributions		39,962		23,817		14,885		71,676
Total Deferred Inflows of Resources	\$	43,943	\$	27,002	\$	50,714	\$	74,861
					. =		-	
Pension Expense Proportionate share of plan pension expense	\$	25,894	\$	20,715	\$	233,042	\$	20,715
Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	_	(15,987)		(7,719)	_	75,122		(16,724)
Total Employer Pension Expense	\$	9,907	\$	12,996	\$	308,164	\$	3,991
Contributions								
Contributions Statutory required contribution	\$	22,229	\$	18,099	\$	203,617	\$	18,099
Contribution in relation to statutory required contribution		(22,229)		(18,099)		(203,617)		(18,099)
					_			
Contribution deficiency/(excess)	٠ \$		\$	-	۵_		\$	
Contributions as a percentage of covered payroll		27.78%		28.28%		28.28%		28.28%
Deferred (Inflows)/Outflows Recognized in								
Future Pension Expense	•	(11.007)	•	(2.964)	•	110 221	•	(20, 121)
June 30, 2024 June 30, 2025	\$	(11,087) (10,904)	Ф	(3,864) (3,784)	Ф	118,321 134,750	Ф	(20,131) (27,718)
June 30, 2026.		(609)		(1,964)		107,730		(2,023)
June 30, 2027		12,841		10,337		124,198		10,337
Total Deferred (Inflows)/Outflows Recognized in	-	.2,0		.0,00.	-	121,100	-	.0,001
Future Pension Expense	\$	(9,759)	\$	725	\$ _	484,999	\$	(39,535)
Discount Rate Sensitivity								
1% decrease (6.00%)	\$	294,461	\$	235,567	\$	2,650,164	\$	235,567
Current discount rate (7.00%)	. \$	231,806	\$	185,443	\$	2,086,264	\$	185,443
1% increase (8.00%)	\$	179,197	\$	143,356	\$	1,612,778	\$	143,356
Covered Payroll	\$	80,011	\$	64,009	\$	720,097	\$	64,009
See notes to schedule of employer allocations and schedule of pension amounts by employer.								(continued)

		Manchester Housing Authority	-	Merrimac Housing Authority	_	Middleton Housing Authority	· -	Nahant Housing Authority
Net Pension Liability								
Beginning net pension liability	\$	277,456	\$	104,049	\$	173,407	\$	160,930
Ending net pension liability	\$	370,896	\$	139,079	\$	231,806	\$	189,189
<u>Deferred Outflows of Resources</u>								
Differences between expected and actual experience	\$	12	\$	4	\$	7	\$	6
Net difference between projected and actual investment earnings on pension plan investments		34,392		12,896		21,495		17,543
Changes of assumptions		20,240		7,590		12,650		10,324
Changes in proportion and differences between								
employer contributions and proportionate								
share of contributions		52	-	7,645	_	100	_	4,268
Total Deferred Outflows of Resources	\$	54,696	\$	28,135	\$_	34,252	\$	32,141
Deferred Inflows of Resources								
Differences between expected and actual experience	\$	6,370	\$	2,389	\$	3,981	\$	3,249
Changes in proportion and differences between								
employer contributions and proportionate				=0				40.400
share of contributions		147	-	52	-	21	-	13,436
Total Deferred Inflows of Resources	\$	6,517	\$	2,441	\$ _	4,002	\$_	16,685
Pension Expense								
Proportionate share of plan pension expense	\$	41,432	\$	15,530	\$	25,894	\$	21,124
Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions		7,253		22,271	_	22		11,535
Total Employer Pension Expense	\$	48,685	\$	37,801	\$_	25,916	\$	32,659
Contributions								
Contributions Statutory required contribution	\$	35,567	\$	13,337	\$	22,229	\$	23,457
Contribution in relation to statutory required contribution		(35,567)		(13,337)		(22,229)		(23,457)
			-		-	, ,	-	(20, 101
Contribution deficiency/(excess)	\$		\$		\$	-	\$	-
Contributions as a percentage of covered payroll		27.78%		27.78%		27.78%		48.86%
Deferred (Inflows)/Outflows Recognized in								
Future Pension Expense	\$	7 762	e	10 544	æ	4 022	œ	2 424
June 30, 2024	-	7,763	ф	10,544	Ф	4,922 5,102	ф	2,421
June 30, 2025 June 30, 2026		8,052 11,818		3,017		7,385		2,212
June 30, 2027		20,546		4,431 7,702		12,841		3,708 7,115
Total Deferred (Inflows)/Outflows Recognized in		20,340	-	7,702	-	12,041	-	7,113
Future Pension Expense	\$	48,179	\$	25,694	\$	30,250	\$	15,456
Discount Rate Sensitivity								
1% decrease (6.00%)	\$	471,146	\$	176,671	\$	294,461	\$	240,325
Current discount rate (7.00%)	\$	370,896	\$	139,079	\$	231,806	\$	189,189
1% increase (8.00%)	\$	286,720	\$	107,514	\$	179,197	\$	146,252
Covered Payroll	\$	128,017	\$	48,006	\$	80,011	\$	48,006
See notes to schedule of employer allocations and schedule of pension amounts by employer.								(continued)

FOR THE YEAR I	TL	North		,				
		Andover		Rockport		Rowley		Salisbury
	-	Housing Authority		Housing Authority	_	Housing Authority	. <u>-</u>	Housing Authority
Net Pension Liability								
Beginning net pension liability	\$	1,317,898	\$	554,904	\$	287,053	\$	138,724
Ending net pension liability	\$	1,715,368	\$	741,781	\$	327,135	\$	185,443
<u>Deferred Outflows of Resources</u> Differences between expected and actual experience	\$	53	\$	23	\$	10	\$	6
Net difference between projected and actual investment earnings on pension plan investments		159,061		68,783		30,334		17,196
Changes of assumptions		93,610		40,480		17,852		10,120
Changes in proportion and differences between employer contributions and proportionate		005		70.000		74.040		440
share of contributions	-	265		70,338	-	74,340	-	448
Total Deferred Outflows of Resources	\$ _	252,989	\$	179,624	\$ _	122,536	\$	27,770
<u>Deferred Inflows of Resources</u> Differences between expected and actual experience	\$	29,460	\$	12,739	\$	5,618	\$	3,185
Changes in proportion and differences between employer contributions and proportionate share of contributions		103,676		24,018		36,124		55,109
Total Deferred Inflows of Resources	\$	133,136	\$	36,757	\$_	41,742	\$	58,294
Dessina Foregoe	-		•		-		-	
Pension Expense Proportionate share of plan pension expense	\$	191,610	\$	82,859	\$	36,544	\$	20,715
Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	_	(47,236)		31,374	_	31,577		(38,443)
Total Employer Pension Expense	\$	144,374	\$	114,233	\$	68,121	\$	(17,728)
Contributions Statutory required contribution	\$	164,495	\$	71,133	\$	34,477	\$	18,099
Contribution in relation to statutory required contribution	-	(164,495)		(71,133)	-	(34,477)	_	(18,099)
Contribution deficiency/(excess)	\$		\$		\$		\$	
Contributions as a percentage of covered payroll		27.78%		27.78%		53.86%		28.28%
Deferred (Inflows)/Outflows Recognized in								
Future Pension Expense	•	(2.500)	•	E4 000	•	25.204	•	(07.000
June 30, 2024	Ъ	(3,500) (2,496)	\$	54,232 31,904	\$	35,294 32,175	\$	(27,292) (19,600)
June 30, 2026		38,745		15,640		4,247		6,031
June 30, 2027		87,104		41,091		9,078		10,337
Total Deferred (Inflows)/Outflows Recognized in	_		_		_		_	
Future Pension Expense	\$_	119,853	\$	142,867	\$ _	80,794	\$	(30,524)
<u>Discount Rate Sensitivity</u> 1% decrease (6.00%)	\$	2,179,018	\$	942,278	\$	415,557	\$	235,567
Current discount rate (7.00%)	\$	1,715,368	\$	741,781	\$	327,135	\$	185,443
1% increase (8.00%)	\$	1,326,059	\$	573,431	\$	252,890	\$	143,356
Covered Payroll	\$	592,079	\$	256,034	\$	64,009	\$	64,009
See notes to schedule of employer allocations and schedule of pension amounts by employer.								(continued)

	_	Topsfield Housing Authority		Wenham Housing Authority		Totals
Not Denoise Liebility						
Net Pension Liability  Beginning net pension liability	\$	138,724	\$	277,456	\$	347,248,109
Ending net pension liability	\$	185,443	\$	370,896	\$	464,018,998
Deferred Outflows of Resources						
Differences between expected and actual experience	\$	6	\$	12	\$	14,455
Net difference between projected and actual		47.400		04.000		40.007.044
investment earnings on pension plan investments		17,196		34,392		43,027,241
Changes of assumptions		10,120		20,240		25,322,031
Changes in proportion and differences between						
employer contributions and proportionate		405		50		0.000.000
share of contributions	_	405	-	52		9,992,636
Total Deferred Outflows of Resources	\$_	27,727	\$	54,696	\$	78,356,363
Deferred Inflows of Resources						
Differences between expected and actual experience	\$	3,185	\$	6,370	\$	7,969,002
Changes in proportion and differences between						
employer contributions and proportionate		00.04=				
share of contributions	_	23,817	-	147		9,992,636
Total Deferred Inflows of Resources	\$ _	27,002	\$	6,517	\$	17,961,638
Pension Expense						
Proportionate share of plan pension expense	\$	20,715	\$	41,432	\$	51,832,067
Net amortization of deferred amounts from changes in proportion and differences between employer						
contributions and proportionate share of contributions	_	(7,719)	_	(7,341)		
Total Employer Pension Expense	\$ _	12,996	\$	34,091	\$	51,832,067
Out the first						
Contributions Statutory required contribution	\$	18,099	\$	35,567	\$	44,519,430
Claratory required contribution	Ψ	10,000	Ψ	33,307	Ψ	44,515,450
Contribution in relation to statutory required contribution				(35,567)	,	(44,562,837
Contribution deficiency/(excess)	\$_	-	\$	-	\$	(43,407
Contributions as a percentage of covered payroll		28.28%		27.78%		27.85%
Deferred (Inflows)/Outflows Recognized in						
Future Pension Expense June 30, 2024	\$	(3,864)	\$	7,763	\$	9,793,896
June 30, 2025		(3,784)	•	8,052	•	10,137,183
June 30, 2026		(1,964)		11,818		14,775,537
June 30, 2027	_	10,337	_	20,546		25,688,109
Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense	\$_	725	\$	48,179	\$	60,394,725
Discount Rate Sensitivity						
1% decrease (6.00%)	\$	235,567	\$	471,146	\$	589,439,612
Current discount rate (7.00%)	\$	185,443	\$	370,896	\$	464,018,998
1% increase (8.00%)	\$	143,356	\$	286,720	\$	358,708,080
Covered Payroll	\$	64,009	\$	128,017	\$	160,021,473
See notes to schedule of employer allocations and schedule of pension amounts by employer.						(concluded

# NOTE I - SCHEDULE OF EMPLOYER ALLOCATIONS

Governmental Accounting Standards Board (GASB) Statement #68 requires employers participating in a costsharing pension plan to recognize pension liabilities as employees provide services to the government and earn their pension benefits. Employers participating in cost-sharing plans are required to recognize their proportionate share of the plan's collective pension amounts for all benefits provided through the plan including the net pension liability, deferred outflows of resources, deferred inflows of resources, contributions and pension expense.

GASB Statement #68 requires the allocation of the collective pension amounts be consistent with the manner in which contributions to the plan are determined. As permissible under GASB Statement #68, The Schedule of Employer Allocations is used to demonstrate the allocation of Essex Regional Retirement System's collective pension amounts.

Massachusetts General Law (MGL) Chapter 32 Section 22 Paragraph 7c dictates that Massachusetts cost sharing defined benefit pension plans allocate the annual required pension fund appropriation to employer units based on their proportionate share of the aggregate of the annual rates of regular compensation of all members in service of the System who are employees of any government unit at the close of business on the September 30th immediately preceding the fiscal year. Accordingly, the proportionate aggregate rates of regular compensation as of the close of business on September 30, 2021, were applied to allocate the System's fiscal year 2023 pension fund appropriation by member unit.

When a member unit accepts an Early Retirement Incentive Program (E.R.I.), PERAC completes an analysis of the costs and liabilities attributable to the additional benefits payable in accordance with the E.R.I. The accrued liability for the members who accept the E.R.I as retirees including the E.R.I less the accrued liability for the members as active employees excluding the E.R.I represents the increase in accrued liability due to the E.R.I. The net increase is amortized for each member unit accepting the E.R.I, and is separately identified in the System's funding schedule. The 2002 E.R.I amortization is straight line for Nahant Housing which is increasing at 4.5% per year ending in 2028. The 2003 E.R.I amortization is straight line for Groveland which is increasing at 4.5% per year ending in 2028.

Members of the Manchester-Essex Regional School District and the Rowley Housing Authority have been awarded years of credited service in addition to those which they received as contributing members of the System. This is a result of a decision by the Contributory Retirement Appeal Board (CRAB), as described in an order and memorandum, dated May 27, 2015, by the State Appeals Board, regarding a similar arrangement between the Merrimack Valley Regional Transit Authority and the Lawrence Retirement System. The effect of the decision grants additional service to members affected and requires reimbursement from the individual employers of each of the members.

The allocation percentage of the total net pension liability is a blended rate of the following items. (1) The proportionate share of active employer's covered payroll is applied to the fiscal year 2021 pension fund appropriation calculated by the actuary. (2) Current Direct E.R.I. and CRAB appropriation is a direct current charge calculated by PERAC for only the employers that accepted the E.R.I and/or those employers effected by the CRAB decision. This direct charge backed out of the total pension fund appropriation to calculate the percentage to be allocated (3) Remaining Direct E.R.I. and CRAB liability is the future E.R.I. and/or CRAB liability associated directly to those employers that accepted the E.R.I and/or those effected by the CRAB decision. This direct liability is added back to those employers once the non- E.R.I and non-CRAB liability has been allocated.

# NOTE II - SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

The Schedule of Pension Amounts by Employer presents the net pension liability, the various categories of deferred outflows of resources and deferred inflows of resources, contributions and pension expense for all participating employers including differences between expected and actual economic experience; differences between projected and actual investment earnings, net; and changes of assumptions.

# NOTE III – CHANGES IN ACTUARIAL ASSUMPTIONS AND PLAN PROVISIONS

Actuarial Assumptions:	
None.	
Plan Provisions:	
None.	

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# REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS

# **Independent Auditor's Report**

To the Honorable Essex Regional Retirement Board Essex Regional Retirement System Danvers, Massachusetts

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to the financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Essex Regional Retirement System, as of and for the year ended December 31, 2022, and the related notes to the financial statements, which collectively comprise the Essex Regional Retirement System's financial statements, and have issued our report thereon dated August 28, 2023.

# **Report on Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the Essex Regional Retirement System's internal control over financial reporting (internal control) as a basis for designing the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Essex Regional Retirement System's internal control. Accordingly, we do not express an opinion on the effectiveness of Essex Regional Retirement System's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or, significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that have not been identified.

# **Report on Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the Essex Regional Retirement System's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws,

regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

# **Purpose of this Report**

Powers & Sullivan LLC

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

August 28, 2023