

PLYMOUTH COUNTY RETIREMENT ASSOCIATION

FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2019

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Financial Section

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Independent Auditor's Report

To the Honorable Plymouth Retirement Board
Plymouth County Retirement Association
Plymouth, Massachusetts

Report on the Financial Statements

We have audited the accompanying financial statements of the Plymouth County Retirement Association as of and for the year ended December 31, 2019, and the related notes to the financial statements, which collectively comprise the Plymouth County Retirement Association's financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

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

Auditor's Responsibility

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

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

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

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Plymouth County Retirement Association as of December 31, 2019 and the results of its operations and changes in its financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that 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 Return 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. 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 December 15, 2020, on our consideration of the Plymouth County Retirement Association'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 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 Plymouth County Retirement Association's internal control over financial reporting and compliance.

Restriction on Use

This report is intended solely for the information and use of the Plymouth County Retirement Association, 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.



December 15, 2020

Management's Discussion and Analysis

As management of the Plymouth County Retirement Association (the "Association"), we offer readers of these financial statements this narrative overview and analysis of the financial activities for the year ended December 31, 2019. The Association 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 association compared to others.

Financial Highlights

- The Association's assets exceeded its liabilities at the close of the most recent year by \$1.1 billion (net position).
- The Association's net position increased by \$158.3 million for the year ended December 31, 2019.
- Total investment income was \$181.7 million; investment expenses were \$12.7 million; and net investment income was \$169 million.
- Total contributions were \$112.4 million including \$28.8 million from members, \$74.5 million from employers and \$9.1 million from other sources.
- Retirement benefits, refunds and transfers amounted to \$121.1 million.
- Administrative expenses were \$1.9 million.
- The Total Pension Liability was \$1.78 billion as of December 31, 2019 while the Net Pension Liability was \$682.2 million.
- The fiduciary net position as a percentage of the total pension liability was 61.61%.

Overview of the Financial Statements

This discussion and analysis is intended to serve as an introduction to the Association's fiduciary financial statements. These fiduciary financial statements are comprised 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 less deferred inflows 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 Association'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 Return 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 Association’s financial position. The Association’s net position exceeded liabilities by \$1.11 billion at the close of 2019.

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 Association’s net position include investments of \$1.07 billion, cash of \$23.8 million, as well as accounts receivable and other assets of \$11.7 million.

In 2019, the Association’s total contributions were \$112.4 million and net investment income was \$169 million while retirement benefit payments, refunds, transfers and administration expenses were \$123 million, which resulted in a current increase of \$158.4 million.

During 2019, net position increased by \$158.3 million. This increase was primarily the result of the \$169 million net investment income. That increase was offset by current contributions not being sufficient to support the current expenses and therefore a portion of net investment income was needed to support the remaining expenses. The annual money weighted rate of return was 16.88% and -7.10% in 2019 and 2018, respectively. Fluctuations in the Association’s annual investment returns are expected.

The following tables present summarized financial information for the year.

| | 2019 | 2018 |
|---|------------------|----------------|
| Statement of Fiduciary Net Position | | |
| Assets: | | |
| Cash..... | \$ 23,775,930 | \$ 12,099,482 |
| Investments..... | 1,070,781,893 | 926,504,968 |
| Receivables..... | 11,390,285 | 5,101,109 |
| Other assets..... | 338,618 | 1,082,838 |
| Total assets..... | 1,106,286,726 | 944,788,397 |
| Liabilities: | | |
| Accounts payable..... | 11,358,622 | 8,148,591 |
| Net Position Restricted for Pension Benefits..... | \$ 1,094,928,104 | \$ 936,639,806 |

| Statement of Changes in Fiduciary Net Position | 2019 | 2018 |
|--|------------------|----------------|
| Additions: | | |
| Contributions: | | |
| Member contributions..... | \$ 28,759,454 | \$ 27,326,242 |
| Employer contributions..... | 74,462,092 | 72,811,482 |
| Other contributions..... | 9,125,768 | 6,940,373 |
| Total contributions..... | 112,347,314 | 107,078,097 |
| Net investment income (loss): | | |
| Total investment income (loss)..... | 181,696,874 | (63,921,914) |
| Less, investment expenses..... | (12,733,502) | (8,646,486) |
| Net investment income (loss)..... | 168,963,372 | (72,568,400) |
| Total additions..... | 281,310,686 | 34,509,697 |
| Deductions: | | |
| Administration..... | 1,888,516 | 1,828,777 |
| Retirement benefits, refunds and transfers..... | 121,133,872 | 115,748,560 |
| Total deductions..... | 123,022,388 | 117,577,337 |
| Net increase (decrease) in fiduciary net position..... | 158,288,298 | (83,067,640) |
| Fiduciary net position at beginning of year..... | 936,639,806 | 1,019,707,446 |
| Fiduciary net position at end of year..... | \$ 1,094,928,104 | \$ 936,639,806 |

Requests for Information

This financial report is designed to provide a general overview of the Association's finances for all those with an interest in the Association's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to the Association's Board, 10 Cordage Circle, Suite 234, Plymouth, MA 02360.

Financial Statements

STATEMENT OF FIDUCIARY NET POSITION

DECEMBER 31, 2019

Assets

| | | |
|--|-----------|------------------------------------|
| Cash and cash equivalents..... | \$ | <u>23,775,930</u> |
| Investments: | | |
| Fixed income..... | | 179,192,331 |
| Domestic equities..... | | 271,996,135 |
| International equities..... | | 236,335,022 |
| Real estate funds..... | | 94,529,485 |
| Venture capital funds..... | | 202,930,520 |
| Hedge funds..... | | 63,796,452 |
| Bank loan..... | | <u>22,001,948</u> |
| Total investments..... | | <u>1,070,781,893</u> |
| Accounts receivable: | | |
| Member contributions..... | | 1,732,042 |
| Employer pension appropriation..... | | 176,899 |
| 3(8)c Reimbursements from other systems..... | | 3,537,877 |
| Due from Commonwealth - sheriff retirees (See Note 7)..... | | 880,988 |
| Other accounts receivable..... | | <u>5,062,479</u> |
| Total accounts receivable..... | | <u>11,390,285</u> |
| Interest and dividends..... | | 306,943 |
| Other assets..... | | <u>31,675</u> |
| Total Assets..... | | <u>1,106,286,726</u> |
| Liabilities | | |
| Accounts payable..... | | <u>11,358,622</u> |
| Net Position Restricted for Pensions..... | \$ | <u><u>1,094,928,104</u></u> |

See notes to financial statements.

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION

YEAR ENDED DECEMBER 31, 2019

Additions:

Contributions:

| | | |
|---|----|------------|
| Employer pension assessments..... | \$ | 73,787,092 |
| Employer additional contributions..... | | 675,000 |
| Member contributions..... | | 28,759,454 |
| Transfers from other systems..... | | 3,083,020 |
| 3(8)(c) contributions from other systems..... | | 4,819,790 |
| Workers' compensation settlements..... | | 15,000 |
| Federal grant reimbursements..... | | 31,254 |
| State COLA reimbursements..... | | 485,005 |
| Members' makeup payments and redeposits..... | | 511,181 |
| Interest not refunded..... | | 124,649 |
| Reimbursement of 91A overearnings..... | | 46,812 |
| Other revenue..... | | 9,057 |

Total contributions..... 112,347,314

Net investment income:

Investment income..... 181,696,874

Less: investment expense..... (12,733,502)

Net investment income..... 168,963,372

Total additions..... 281,310,686

Deductions:

Administration..... 1,888,516

Retirement benefits and refunds..... 112,659,142

Transfers to other systems..... 2,753,697

3(8)(c) transfer to other systems..... 5,721,033

Total deductions..... 123,022,388

Net increase (decrease) in fiduciary net position..... 158,288,298

Fiduciary net position at beginning of year..... 936,639,806

Fiduciary net position at end of year..... \$ 1,094,928,104

See notes to financial statements.

NOTE 1 – PLAN DESCRIPTION

Established in 1937, the Plymouth County Retirement Association (Association) is a multiple-employer, cost-sharing, contributory defined benefit pension plan covering all employees of the governmental member units deemed eligible by the Plymouth County 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 Association is mandatory immediately upon the commencement of employment for all permanent employees working a minimum of 20 hours per week. The Association has 53 participating employers.

The Association is governed by a five-member Board that establishes the policies under which the Association operates. Board members also approve most of the Association's financial transactions, including the approval of retirement benefits to members. The day-to-day operations of the Association are managed by the Executive Director.

The legislative body for the Association is an Advisory Council consisting of treasurers of the member units. The Advisory Council meets semi-annually and is responsible for supervising and certifying the procedures involved in the election of members to the retirement board.

The Association is a member of the Massachusetts Contributory Retirement System and is governed by Chapter 32 of the Massachusetts General Laws (MGL). 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 Plan 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 those hired prior to April 2, 2012. 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 Association 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.

Any individual in whose membership began before January 1, 1978, and who maintains an annuity savings fund account, is eligible to receive a superannuation retirement allowance at age 55 or later, regardless of how many years of credible service he or she has completed.

Members hired after January 1, 1978 and prior to April 2, 2012, are eligible to receive a superannuation retirement allowance upon the completion of 20 years of service or upon the completion of 10 years of service and upon reaching the age of 55.

Members hired on or after April 2, 2012, are eligible to receive a superannuation retirement allowance upon the completion of 10 years of service and upon reaching the age of 60 for Groups 1 & 2 or age 55 for Group 4.

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 9% of their gross regular compensation. The percentage rate is keyed to the date upon which an employee's membership commences. Members hired on or after January 1, 1979, contribute an additional 2% of annual regular compensation in excess of \$30,000. Deductions are deposited in the Annuity Savings Fund and earn interest at a rate determined by the 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 Association and all costs are borne by the Association.

The pension portion of any retirement benefit is paid from the Pension Fund of the Association. The governmental unit employing the member must annually appropriate and contribute the amount of current-year pension assessment. Chapter 32 of the MGL requires Massachusetts retirement systems to adopt funding schedules designed to reduce the unfunded actuarial liability of the system to zero by no later than June 30, 2040. The Association adopted Section 22d of Chapter 32 in April of 1989. The Association's current funding schedule is designed to reduce the unfunded actuarial liability to zero by 2029.

Administrative expenses are 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 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 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 Association 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.

The Association 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.

Accounts Receivable

Accounts receivable consist of member deductions, pension fund appropriations, and other miscellaneous reimbursements. These receivables are considered 100% collectible and therefore the Association does not report an allowance for uncollectibles.

Fair Value Measurements

The Association 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, generally included in this category, encompass 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 are 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 Association's financial instruments, see Note 4 – Cash and Investments.

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 position that applies to a future period(s) and so will not be recognized as an outflow of resources (deduction) until then. The Association 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 position that applies to a future period(s) and so will not be recognized as an inflow of resources (addition) until that time. The Association did not have any items that qualify for reporting in this category.

NOTE 3 – PLAN ADMINISTRATION

The Association is administered by a five-person Board of Retirement consisting of the Plymouth County Treasurer, who shall be a member ex-officio, a second member appointed by the governing authority (the Plymouth County Commission), a third and fourth member who shall be elected by the members in or retired from the service of such Association, and a fifth member appointed by the Advisory Council consisting of representatives from the member units.

- Chairman..... Thomas J. O'Brien
- Appointed Member..... James Harrington
- Elected Member..... Joseph McDonough
- Elected Member..... John Sciara
- Member..... Mary Beth Carter

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

The investment of the Association’s funds is the responsibility of the Board. All retirement allowances must be approved by the Retirement Board. The PERAC Actuary performs verification prior to payment, unless the Association has obtained a waiver for superannuation calculations allowing them to bypass this requirement. All expenses incurred by the Association must be approved by a majority vote of the Board. Payments shall be made only upon vouchers signed by four members of the Board.

The following retirement board members and employees are bonded by an authorized agent representing a company licensed to do business in Massachusetts as follows:

- Treasurer-Custodian:) MACRS Blanket Policy
- Ex-Officio Member:) \$50,000,000 Fiduciary Liability
- Elected Members:) \$1,000,000 Fidelity (ERISA) Bond
- Appointed Members:) St. Paul Travelers Insurance Company
- Staff Employees:) National Union Fire Arch Insurance Company

NOTE 4 – CASH AND INVESTMENTS

Custodial Credit Risk - Deposits

At December 31, 2019, the carrying amount of the Association's deposits totaled \$22.3 million and the bank balance of \$24.8 million was covered by Federal Depository Insurance.

Investments

The Association's investments were as follows:

| Investment Type | Fair Value | Maturity | | | |
|-----------------------------|-------------------------|---------------------|----------------------|----------------------|----------------------|
| | | Under 1 Year | 6-10 Years | 6-10 Years | Over 10 Years |
| <u>Debt Securities:</u> | | | | | |
| Fixed Income..... | \$ 179,192,331 | \$ <u>1,791,923</u> | \$ <u>51,965,776</u> | \$ <u>69,885,009</u> | \$ <u>55,549,623</u> |
| <u>Other Investments:</u> | | | | | |
| Domestic Equities..... | 271,996,135 | | | | |
| International Equities..... | 236,335,022 | | | | |
| Real Estate Funds..... | 94,529,485 | | | | |
| Venture Capital Funds..... | 202,930,520 | | | | |
| Hedge Funds..... | 63,796,452 | | | | |
| Bank Loan..... | 22,001,948 | | | | |
| Total Investments..... | \$ <u>1,070,781,893</u> | | | | |

In addition, the Association's cash balance includes \$1,476,252 of Money Market Mutual Funds.

The Association's annual money-weighted rate of return on pension plan investments was a gain of 16.88%. 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 Market of Investments

The Association 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 Association chooses a tabular format for disclosing the levels within the fair value hierarchy.

The Association categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles.

The Association had the following recurring fair value measurements as of December 31, 2019:

| Investment Type | December 31, 2019 | Fair Value Measurements Using | | |
|--|----------------------|---|--|--|
| | | 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: | | | | |
| Debt Securities: | | | | |
| Fixed Income..... | \$ 179,192,331 | \$ - | \$ 179,192,331 | \$ - |
| Other Investments: | | | | |
| Money Market Mutual Funds..... | - | - | - | - |
| Domestic Equities..... | 271,996,135 | 271,996,135 | - | - |
| International Equities..... | 236,335,022 | 236,335,022 | - | - |
| Real Estate Funds..... | 94,529,485 | - | - | 94,529,485 |
| Venture Capital Funds..... | 202,930,520 | - | - | 202,930,520 |
| Hedge Funds..... | 63,796,452 | - | - | 63,796,452 |
| Bank Loan..... | 22,001,948 | - | 22,001,948 | - |
| Total Investments by fair value level..... | \$ 1,070,781,893 | \$ 508,331,157 | \$ 201,194,279 | \$ 361,256,457 |

NOTE 5 – MEMBERSHIP

The following table represents the Association’s membership at December 31, 2019:

| | |
|---|--------|
| Retirees and beneficiaries currently receiving benefits.... | 4,300 |
| Inactive members..... | 1,696 |
| Active members..... | 5,542 |
| Total..... | 11,538 |

NOTE 6 – ACTUARIAL VALUATION

Components of the net pension liability as of December 31, 2019 were as follows:

| | |
|--|------------------|
| Total pension liability..... | \$ 1,777,175,519 |
| The pension plan's fiduciary net position..... | 1,094,928,104 |
| The net pension liability..... | \$ 682,247,415 |
| The pension plan's fiduciary net position as a percentage of the total pension liability..... | 61.61% |

The total pension liability was determined by an actuarial valuation as of January 1, 2020, using the following actuarial assumptions, applied to all periods included in the measurement date of December 31, 2019:

| | |
|---|--|
| Valuation date..... | January 1, 2020 |
| Actuarial cost method..... | Individual Entry Age Normal Cost Method. |
| Asset valuation method..... | Assets held by the fund are valued at market value as reported by the Public Employees' Retirement Administration Commission (PERAC). The actuarial value of assets is determined using a five-year smoothing of asset returns greater than or less than the assumed rate of return, with a 20% corridor. |
| Projected salary increases..... | 3.75% per year. |
| Cost of living adjustments..... | 3.0% of the first \$16,000 of retirement income. Previously \$14,000. |
| Rates of disability..... | For general employees, it was assumed that 45% of all disabilities are ordinary (55% are service connected). For police and fire employees, 10% of all disabilities are assumed to be ordinary (90% are service connected). |
| Mortality Rates..... | It is assumed that both pre-retirement mortality and beneficiary mortality is represented by the RP-2014 Blue Collar Mortality with Scale MP-2016, fully generational. Mortality for retired members for Group 1 and 2 is represented by the RP-2014 Blue Collar Mortality Table set forward five years for males and 3 years for females, fully generational. Mortality for retired members for Group 4 is represented by the RP-2014 Blue Collar Mortality Table set forward three years for males, and six years for females, fully generational. Mortality for disabled members for Group 1 and 2 is represented by the RP-2000 Mortality Table set forward six years. Mortality for disabled members for Group 4 is represented by the RP-2000 Mortality Table set forward two years. Generational adjusting is based on Scale MP-2016. |
| Investment rate of return/Discount rate.... | 7.875% nominal rate, net of investment expense. |

Investment policy: The Association’s policy in regard to the allocation of invested assets is established by 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 best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected nominal rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

Best estimates of arithmetic real rates of return for each major asset class included in the Association’s target asset allocation as of January 1, 2020 are summarized in the following table:

| Asset Class | Long-Term Expected Nominal Rate of Return | Long-Term Expected Asset Allocation |
|-------------------------------------|---|--|
| Domestic equity..... | 7.40% | 26.00% |
| International developed equity..... | 7.90% | 6.00% |
| Emerging markets equity..... | 9.10% | 10.00% |
| Global equity..... | 7.80% | 10.00% |
| Core bonds..... | 3.00% | 9.00% |
| Value-added fixed income..... | 4.90% | 6.00% |
| Hedge funds..... | 4.00% | 4.00% |
| Real estate..... | 7.50% | 10.00% |
| Private equity..... | 9.40% | 13.00% |
| Real assets..... | 7.50% | 6.00% |
| | | 100.00% |

Discount rate: The discount rate used to measure the total pension liability was 7.875%. 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 contributions will be made at rates equal to the actuarially determined contribution rate. Based on those assumptions, the pension plan’s fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the net position liability to changes in the discount rate: The following presents the net position liability, calculated using the discount rate of 7.875%, as well as what the net position liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.875%) or 1-percentage-point higher (8.875%) than the current rate:

| | 1% Decrease (6.875%) | Current Discount (7.875%) | 1% Increase (8.875%) |
|---|-------------------------|---------------------------------|-------------------------|
| Plymouth County Retirement Association's net pension liability as of December 31, 2019..... | \$ 866,436,543 | \$ 682,247,415 | \$ 525,265,208 |

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 Association’s funding schedule, and additional appropriations in accordance with adopted early retirement incentive programs.

NOTE 7 – PLYMOUTH COUNTY SHERIFF’S RETIRED EMPLOYEES

Section 10 of Chapter 61 of the Acts of 2009 related to the transfer of the sheriff’s operations from County Government to the Commonwealth and required the Commonwealth to pay off the unfunded pension liability of the retired sheriff’s employees. Section 11 of Chapter 34D of the Massachusetts General Laws provides a

mechanism for allowing the County to retain additional deeds excise tax to satisfy the actuarial determined liability. The Commonwealth established a twelve-year amortization schedule for the FY2011 through FY2022 annual assessments. The Commonwealth withheld, in error, \$550,619 from each of the required amortization payments for the first four fiscal years. The Association and Commonwealth signed a settlement agreement where the Commonwealth agreed that it was in arrears \$2,202,476. The Commonwealth, County, PERAC and the Association established a ten-year straight-line payment schedule of \$220,247 in November 2014 to satisfy the liability. The required payment of \$220,247 was received in 2019. The four remaining payments totaling \$880,988, at year-end, have been recorded as a receivable.

NOTE 8 – COMMITMENTS AND CONTINGENCIES

There are no legal actions or claims pending that would materially affect the financial position at December 31, 2019.

NOTE 9 – IMPLEMENTATION OF GASB PRONOUNCEMENTS

In May of 2020, the GASB issued Statement #95, *Postponement of the Effective Dates of Certain Authoritative Guidance*. The objective of this Statement is to provide temporary relief to governments and other stakeholders in light of the COVID-19 pandemic. This Statement postponed the required implementation of many of the upcoming Statements for one year or longer.

There were no GASB pronouncements required to be implemented in 2019 that impacted the Association's financial statements.

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

NOTE 10 – SUBSEQUENT EVENTS

Management has evaluated subsequent events through December 15, 2020, which is the date the financial statements were available to be issued.

On September 24, 2020, the Association purchased a building for approximately \$2.4 million. The capital asset will be recorded in the Association's 2020 financial statements.

Required Supplementary Information

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

| | December 31, 2014 | December 31, 2015 | December 31, 2016 | December 31, 2017 | December 31, 2018 | December 31, 2019 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Total pension liability: | | | | | | |
| Service cost..... | \$ 30,880,169 | \$ 32,038,175 | \$ 33,239,607 | \$ 26,807,632 | \$ 27,772,477 | \$ 28,883,376 |
| Interest..... | 111,727,069 | 115,962,263 | 116,054,394 | 119,404,812 | 122,120,554 | 129,044,546 |
| Changes in benefit terms..... | - | - | 6,700,296 | - | - | 15,202,584 |
| Differences between expected and actual experience..... | - | - | 21,421,023 | - | 59,806,942 | 55,982,071 |
| Changes in assumptions..... | - | - | (23,402,726) | - | 19,750,049 | - |
| Benefit payments..... | <u>(90,825,319)</u> | <u>(98,626,669)</u> | <u>(100,786,029)</u> | <u>(110,807,537)</u> | <u>(115,748,560)</u> | <u>(121,133,872)</u> |
| Net change in total pension liability..... | 51,781,919 | 49,373,769 | 53,226,565 | 35,404,907 | 113,701,462 | 107,978,705 |
| Total pension liability - beginning..... | <u>1,365,708,192</u> | <u>1,417,490,111</u> | <u>1,466,863,880</u> | <u>1,520,090,445</u> | <u>1,555,495,352</u> | <u>1,669,196,814</u> |
| Total pension liability - ending (a)..... | <u>\$ 1,417,490,111</u> | <u>\$ 1,466,863,880</u> | <u>\$ 1,520,090,445</u> | <u>\$ 1,555,495,352</u> | <u>\$ 1,669,196,814</u> | <u>\$ 1,777,175,519</u> |
| Plan fiduciary net position: | | | | | | |
| Employer pension appropriation..... | \$ 56,266,944 | \$ 67,162,327 | \$ 66,393,381 | \$ 69,896,514 | \$ 72,811,482 | \$ 74,462,092 |
| Member contributions..... | 24,889,464 | 26,259,167 | 25,501,976 | 26,076,090 | 27,326,242 | 29,270,635 |
| Other contributions..... | 2,910,328 | 2,801,874 | 7,357,214 | 4,788,362 | 6,940,373 | 8,614,587 |
| Net investment income (loss)..... | 32,962,502 | (1,710,419) | 57,204,478 | 144,907,116 | (72,568,400) | 168,963,372 |
| Administrative expenses..... | (1,521,667) | (1,553,871) | (1,723,774) | (1,737,836) | (1,828,777) | (1,888,516) |
| Retirement benefits and refunds..... | <u>(91,939,449)</u> | <u>(94,903,555)</u> | <u>(100,786,030)</u> | <u>(110,807,537)</u> | <u>(115,748,560)</u> | <u>(121,133,872)</u> |
| Net increase (decrease) in fiduciary net position..... | 23,568,122 | (1,944,477) | 53,947,245 | 133,122,709 | (83,067,640) | 158,288,298 |
| Fiduciary net position - beginning of year..... | <u>811,013,847</u> | <u>834,581,969</u> | <u>832,637,492</u> | <u>886,584,737</u> | <u>1,019,707,446</u> | <u>936,639,806</u> |
| Fiduciary net position - end of year (b)..... | <u>\$ 834,581,969</u> | <u>\$ 832,637,492</u> | <u>\$ 886,584,737</u> | <u>\$ 1,019,707,446</u> | <u>\$ 936,639,806</u> | <u>\$ 1,094,928,104</u> |
| Net pension liability - ending (a)-(b)..... | <u>\$ 582,908,142</u> | <u>\$ 634,226,388</u> | <u>\$ 633,505,708</u> | <u>\$ 535,787,906</u> | <u>\$ 732,557,008</u> | <u>\$ 682,247,415</u> |
| Plan fiduciary net position as a percentage of the total pension liability..... | 58.88% | 56.76% | 58.32% | 65.56% | 56.11% | 61.61% |
| Covered payroll..... | \$ 246,703,686 | \$ 255,955,074 | \$ 265,029,190 | \$ 275,630,362 | \$ 281,665,696 | \$ 294,614,062 |
| Net pension liability as a percentage of covered payroll..... | 236.28% | 247.79% | 239.03% | 194.39% | 260.08% | 231.57% |

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.

SCHEDULE OF CONTRIBUTIONS

| | December 31, 2014 | December 31, 2015 | December 31, 2016 | December 31, 2017 | December 31, 2018 | December 31, 2019 |
|--|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|
| Actuarially determined contribution..... | \$ 58,130,647 | \$ 62,772,260 | \$ 66,255,664 | \$ 68,534,029 | \$ 72,127,482 | \$ 73,787,092 |
| Contributions in relation to the actuarially determined contribution..... | <u>(58,130,647)</u> | <u>(62,772,260)</u> | <u>(66,393,381)</u> | <u>(69,896,514)</u> | <u>(72,811,482)</u> | <u>(74,462,092)</u> |
| Contribution deficiency (excess)..... | <u>\$ -</u> | <u>\$ -</u> | <u>\$ (137,717)</u> | <u>\$ (1,362,485)</u> | <u>\$ (684,000)</u> | <u>\$ (675,000)</u> |
| Covered payroll..... | \$ 246,703,686 | \$ 255,955,074 | \$ 265,029,190 | \$ 275,630,362 | \$ 281,665,696 | \$ 294,614,062 |
| Contributions as a percentage of covered payroll..... | 23.56% | 24.52% | 25.05% | 25.36% | 25.85% | 25.27% |

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.

SCHEDULE OF INVESTMENT RETURNS

| <u>Year</u> | <u>Annual money-weighted rate of return, net of investment expense</u> |
|------------------------|--|
| December 31, 2019..... | 16.88% |
| December 31, 2018..... | -7.10% |
| December 31, 2017..... | 16.30% |
| December 31, 2016..... | 7.40% |
| December 31, 2015..... | 0.25% |
| December 31, 2014..... | 4.70% |

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 Association's total pension liability, changes in the Association'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 Association'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 the actuarial valuation results. An employer may contribute more than the amount required which reduces their specific net pension liability.

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 ASSUMPTIONS

None.

NOTE E – CHANGES IN PLAN PROVISIONS

The cost of living adjustment assumption was updated from 3.0% of the first \$14,000 of retirement income to 3.0% of the first \$16,000 of retirement income.

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

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Independent Auditor's Report

To the Honorable Plymouth Retirement Board
Plymouth County Retirement Association
Plymouth, Massachusetts

We have audited the accompanying schedule of employer allocations of the Plymouth County Retirement Association as of and for the year ended December 31, 2019, 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 of pension amounts by employer of the Plymouth County Retirement Association as of and for the year ended December 31, 2019, and the related notes.

Management's Responsibility for the Schedules

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

Auditor's Responsibility

Our responsibility is to express opinions on the schedule of employer allocations and the specified row totals included in the schedule of pension amounts by employer based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer allocations and specified row totals included in the schedule of pension amounts by employer are free from material misstatement.

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

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

Opinions

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and row totals titled 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 Plymouth County Retirement Association as of and for the year ended December 31, 2019, in accordance with accounting principles generally accepted in the United States of America.

Other Matter

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the Plymouth County Retirement Association as of and for the year ended December 31, 2019, and our report thereon, dated December 15, 2020, expressed an unmodified opinion on those financial statements.

Restriction on Use

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

A handwritten signature in black ink, appearing to read "Bowers & Sullivan LLC". The signature is written in a cursive, flowing style.

December 15, 2020

SCHEDULE OF EMPLOYER ALLOCATIONS

FOR THE YEAR ENDED DECEMBER 31, 2019

| Employer | Employer Allocation Percentage | Share of Net Pension Liability | Contribution In Excess of Annual Appropriation | Net Pension Liability |
|--|--------------------------------|--------------------------------|--|-----------------------|
| Plymouth County..... | 4.9405% | \$ 37,526,684 | \$ (3,820,116) | \$ 33,706,568 |
| Town of Abington..... | 3.6642% | 24,998,762 | - | 24,998,762 |
| Town of Bridgewater..... | 4.8365% | 32,997,164 | - | 32,997,164 |
| Bridgewater Housing Authority..... | 0.0875% | 597,212 | - | 597,212 |
| Bridgewater/Raynham Regional School..... | 2.3309% | 15,902,396 | - | 15,902,396 |
| Town of Carver..... | 2.7644% | 18,859,725 | - | 18,859,725 |
| Carver/Marion/Wareham Regional Refuse..... | 0.1063% | 725,137 | - | 725,137 |
| Town of Duxbury..... | 5.1865% | 35,384,645 | - | 35,384,645 |
| Duxbury Housing Authority..... | 0.0327% | 223,014 | - | 223,014 |
| Town of East Bridgewater..... | 3.5372% | 24,132,704 | - | 24,132,704 |
| East Bridgewater Housing Authority..... | 0.0499% | 340,677 | - | 340,677 |
| Town of Halifax..... | 1.6013% | 10,924,945 | - | 10,924,945 |
| Town of Hanover..... | 4.5999% | 31,382,708 | - | 31,382,708 |
| Town of Hanson..... | 2.1108% | 14,400,815 | - | 14,400,815 |
| Town of Kingston..... | 3.1040% | 21,176,743 | - | 21,176,743 |
| Kingston Housing Authority..... | 0.0026% | 17,786 | - | 17,786 |
| Town of Lakeville..... | 1.4081% | 9,606,700 | - | 9,606,700 |
| Town of Marion..... | 1.4251% | 9,722,996 | - | 9,722,996 |
| Town of Marshfield..... | 8.1087% | 55,321,130 | - | 55,321,130 |
| Marshfield Housing Authority..... | 0.0426% | 290,739 | - | 290,739 |
| Town of Mattapoisett..... | 1.5650% | 10,677,304 | - | 10,677,304 |
| Town of Middleborough..... | 9.0990% | 62,077,904 | - | 62,077,904 |
| Middleborough Housing Authority..... | 0.1500% | 1,023,401 | - | 1,023,401 |
| Town of Norwell..... | 3.5241% | 24,043,088 | - | 24,043,088 |
| Norwell Housing Authority..... | 0.0456% | 311,262 | - | 311,262 |
| Old Rochester Regional School..... | 0.9477% | 6,465,351 | - | 6,465,351 |
| Onset Fire District..... | 0.3125% | 2,132,314 | - | 2,132,314 |
| Town of Pembroke..... | 4.5670% | 31,158,326 | - | 31,158,326 |
| Plymouth County Mosquito Control..... | 0.2760% | 1,883,304 | - | 1,883,304 |
| Town of Plympton..... | 0.6417% | 4,378,187 | - | 4,378,187 |
| Town of Rochester..... | 1.0184% | 6,948,320 | - | 6,948,320 |
| Town of Rockland..... | 5.4455% | 37,151,654 | - | 37,151,654 |
| Town of Scituate..... | 6.6064% | 45,072,067 | - | 45,072,067 |
| Scituate Housing Authority..... | 0.1281% | 874,269 | - | 874,269 |
| Silver Lake Regional School..... | 0.9912% | 6,762,247 | - | 6,762,247 |
| South Shore Regional School..... | 0.5125% | 3,496,393 | - | 3,496,393 |
| Town of Wareham..... | 5.3353% | 36,399,837 | - | 36,399,837 |
| Wareham Fire District..... | 1.0493% | 7,159,020 | - | 7,159,020 |
| Wareham Housing Authority..... | 0.0406% | 277,057 | - | 277,057 |
| Town of West Bridgewater..... | 2.8083% | 19,159,357 | - | 19,159,357 |
| Town of Whitman..... | 2.7046% | 18,452,007 | - | 18,452,007 |
| Whitman/Hanson Regional School..... | 1.6417% | 11,200,634 | - | 11,200,634 |
| Whitman Housing Authority..... | 0.0516% | 352,307 | - | 352,307 |
| Abington Housing Authority..... | 0.0551% | 376,250 | - | 376,250 |
| Pembroke Housing Authority..... | 0.1327% | 905,053 | - | 905,053 |
| Hanson Housing Authority..... | 0.0406% | 277,057 | - | 277,057 |
| Rockland Housing Authority..... | 0.0842% | 574,637 | - | 574,637 |
| Halifax Housing Authority..... | 0.0259% | 176,496 | - | 176,496 |
| Mattapoisett Housing Authority..... | 0.0265% | 180,600 | - | 180,600 |
| Acushnet/Rochester/Marion Health District..... | 0.0210% | 142,975 | - | 142,975 |
| West Bridgewater Housing Authority..... | 0.0183% | 125,189 | - | 125,189 |
| South Shore Tri-Town Development..... | 0.1656% | 1,130,120 | - | 1,130,120 |
| Carver Housing Authority..... | 0.0280% | 190,862 | - | 190,862 |
| Total..... | 100.00% | \$ 686,067,531 | \$ (3,820,116) | \$ 682,247,415 |

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, 2019

| | Plymouth County | Town of Abington | Town of Bridgewater |
|--|---------------------|---------------------|------------------------|
| Net Pension Liability | | | |
| Beginning net pension liability..... | \$ 38,491,745 | \$ 26,505,663 | \$ 35,916,053 |
| Ending net pension liability..... | \$ 33,706,568 | \$ 24,998,762 | \$ 32,997,164 |
| Deferred Outflows of Resources | | | |
| Differences between expected and actual experience..... | \$ 3,817,950 | \$ 3,040,520 | \$ 3,737,596 |
| Changes of assumptions..... | 525,730 | 418,678 | 514,665 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | <u>2,068,452</u> | <u>342,415</u> | <u>136,474</u> |
| Total Deferred Outflows of Resources..... | <u>\$ 6,412,132</u> | <u>\$ 3,801,613</u> | <u>\$ 4,388,735</u> |
| Deferred Inflows of Resources | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 707,595 | \$ 563,515 | \$ 692,703 |
| Changes of assumptions..... | 109,571 | 87,257 | 107,264 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | <u>1,619,737</u> | <u>211,244</u> | <u>428,112</u> |
| Total Deferred Inflows of Resources..... | <u>\$ 2,436,903</u> | <u>\$ 862,016</u> | <u>\$ 1,228,079</u> |
| Pension Expense | | | |
| Proportionate share of plan pension expense..... | \$ 6,353,344 | \$ 4,073,042 | \$ 5,121,885 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | <u>983,474</u> | <u>(23,671)</u> | <u>(277,157)</u> |
| Total Employer Pension Expense..... | <u>\$ 7,336,818</u> | <u>\$ 4,049,371</u> | <u>\$ 4,844,728</u> |
| Contributions | | | |
| Statutory required contribution..... | \$ 3,646,029 | \$ 2,492,984 | \$ 3,569,333 |
| Contribution in relation to statutory required contribution..... | <u>(4,321,029)</u> | <u>(2,492,984)</u> | <u>(3,569,333)</u> |
| Contribution deficiency/(excess)..... | <u>\$ (675,000)</u> | <u>\$ -</u> | <u>\$ -</u> |
| Contributions as a percentage of covered payroll..... | 25.12% | 21.56% | 25.12% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | |
| June 30, 2021..... | \$ 1,566,997 | \$ 1,124,354 | \$ 1,247,149 |
| June 30, 2022..... | 1,836,409 | 1,117,020 | 1,235,732 |
| June 30, 2023..... | 1,411,597 | 1,251,972 | 1,405,729 |
| June 30, 2024..... | <u>(839,774)</u> | <u>(553,749)</u> | <u>(727,954)</u> |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | <u>\$ 3,975,229</u> | <u>\$ 2,939,597</u> | <u>\$ 3,160,656</u> |
| Discount Rate Sensitivity | | | |
| 1% decrease (6.875%)..... | \$ 42,691,062 | \$ 33,998,103 | \$ 41,792,567 |
| Current discount rate (7.875%)..... | \$ 33,706,568 | \$ 24,998,762 | \$ 32,997,164 |
| 1% increase (8.875%)..... | \$ 25,880,868 | \$ 20,610,881 | \$ 25,336,167 |
| Covered Payroll..... | \$ 14,516,224 | \$ 11,560,361 | \$ 14,210,709 |
| 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, 2019

| | Bridgewater Housing Authority | Bridgewater/ Raynham Regional School | Town of Carver | Carver/Marion Wareham Regional Refuse |
|--|-------------------------------------|---|-------------------|--|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 741,608 | \$ 17,327,991 | \$ 21,326,193 | \$ 519,935 |
| Ending net pension liability..... | \$ 597,212 | \$ 15,902,396 | \$ 18,859,725 | \$ 725,137 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 67,646 | \$ 1,801,268 | \$ 2,136,245 | \$ 82,136 |
| Changes of assumptions..... | 9,315 | 248,034 | 294,160 | 11,310 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 32,826 | 46,614 | 102,159 | 148,008 |
| Total Deferred Outflows of Resources..... | \$ 109,787 | \$ 2,095,916 | \$ 2,532,564 | \$ 241,454 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 12,537 | \$ 333,836 | \$ 395,918 | \$ 15,223 |
| Changes of assumptions..... | 1,941 | 51,694 | 61,308 | 2,357 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 81,888 | 180,150 | 593,046 | 26,081 |
| Total Deferred Inflows of Resources..... | \$ 96,366 | \$ 565,680 | \$ 1,050,272 | \$ 43,661 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 92,453 | \$ 2,468,349 | \$ 2,925,291 | \$ 113,286 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | (6,106) | (25,281) | (141,143) | 70,216 |
| Total Employer Pension Expense..... | \$ 86,347 | \$ 2,443,068 | \$ 2,784,148 | \$ 183,502 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 64,571 | \$ 1,720,164 | \$ 2,040,060 | \$ 78,426 |
| Contribution in relation to statutory required contribution..... | (64,571) | (1,720,164) | (2,040,060) | (78,426) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.11% | 25.12% | 25.12% | 25.11% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 21,717 | \$ 652,507 | \$ 699,627 | \$ 69,860 |
| June 30, 2022..... | 3,002 | 571,259 | 569,596 | 62,758 |
| June 30, 2023..... | 6,768 | 658,289 | 671,654 | 66,824 |
| June 30, 2024..... | (18,066) | (351,819) | (458,585) | (1,649) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ 13,421 | \$ 1,530,236 | \$ 1,482,292 | \$ 197,793 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 756,399 | \$ 20,141,183 | \$ 23,886,789 | \$ 918,422 |
| Current discount rate (7.875%)..... | \$ 597,212 | \$ 15,902,396 | \$ 18,859,725 | \$ 725,137 |
| 1% increase (8.875%)..... | \$ 458,557 | \$ 12,210,315 | \$ 14,481,037 | \$ 556,781 |
| Covered Payroll..... | \$ 257,198 | \$ 6,848,598 | \$ 8,122,215 | \$ 312,291 |
| 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, 2019

| | Town of Duxbury | Duxbury Housing Authority | Town of East Bridgewater | East Bridgewater Housing Authority |
|--|---------------------|---------------------------------|-----------------------------|---|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 37,507,527 | \$ 231,982 | \$ 25,603,508 | \$ 424,197 |
| Ending net pension liability..... | \$ 35,384,645 | \$ 223,014 | \$ 24,132,704 | \$ 340,677 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 4,008,026 | 25,261 | \$ 2,733,516 | \$ 38,589 |
| Changes of assumptions..... | 551,903 | 3,478 | 376,404 | 5,314 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | <u>599,592</u> | <u>12,839</u> | <u>223,798</u> | <u>10,172</u> |
| Total Deferred Outflows of Resources..... | <u>\$ 5,159,521</u> | <u>\$ 41,578</u> | <u>\$ 3,333,718</u> | <u>\$ 54,075</u> |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 742,823 | \$ 4,682 | \$ 506,613 | \$ 7,152 |
| Changes of assumptions..... | 115,025 | 725 | 78,449 | 1,107 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | <u>301,674</u> | <u>14,547</u> | <u>153,391</u> | <u>33,903</u> |
| Total Deferred Inflows of Resources..... | <u>\$ 1,159,522</u> | <u>\$ 19,954</u> | <u>\$ 738,453</u> | <u>\$ 42,162</u> |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 5,495,194 | \$ 34,646 | \$ 3,747,722 | \$ 52,735 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | <u>174,080</u> | <u>(4,351)</u> | <u>7,784</u> | <u>1,895</u> |
| Total Employer Pension Expense..... | <u>\$ 5,669,274</u> | <u>\$ 30,295</u> | <u>\$ 3,755,506</u> | <u>\$ 54,630</u> |
| Contributions | | | | |
| Statutory required contribution..... | \$ 3,827,610 | \$ 24,117 | \$ 2,610,451 | \$ 36,860 |
| Contribution in relation to statutory required contribution..... | <u>(3,827,610)</u> | <u>(24,117)</u> | <u>(2,610,451)</u> | <u>(36,860)</u> |
| Contribution deficiency/(excess)..... | <u>\$ -</u> | <u>\$ -</u> | <u>\$ -</u> | <u>\$ -</u> |
| Contributions as a percentage of covered payroll..... | 25.12% | 25.11% | 25.12% | 25.12% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 1,549,495 | \$ 9,531 | \$ 1,047,573 | \$ 13,017 |
| June 30, 2022..... | 1,501,060 | 7,352 | 954,779 | 3,606 |
| June 30, 2023..... | 1,676,409 | 9,091 | 1,089,944 | 5,666 |
| June 30, 2024..... | <u>(726,965)</u> | <u>(4,350)</u> | <u>(497,031)</u> | <u>(10,376)</u> |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | <u>\$ 3,999,999</u> | <u>\$ 21,624</u> | <u>\$ 2,595,265</u> | <u>\$ 11,913</u> |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 44,816,431 | \$ 282,459 | \$ 30,565,282 | \$ 431,485 |
| Current discount rate (7.875%)..... | \$ 35,384,645 | \$ 223,014 | \$ 24,132,704 | \$ 340,677 |
| 1% increase (8.875%)..... | \$ 27,169,343 | \$ 171,237 | \$ 18,529,781 | \$ 261,582 |
| Covered Payroll..... | \$ 15,238,913 | \$ 96,044 | \$ 10,393,100 | \$ 146,718 |
| 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, 2019

| | Town of Halifax | Town of Hanover | Town of Hanson | Town of Kingston |
|--|--------------------|--------------------|-------------------|---------------------|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 11,588,080 | \$ 33,311,220 | \$ 15,257,087 | \$ 22,452,965 |
| Ending net pension liability..... | \$ 10,924,945 | \$ 31,382,708 | \$ 14,400,815 | \$ 21,176,743 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 1,237,471 | \$ 3,554,726 | \$ 1,631,183 | \$ 2,398,694 |
| Changes of assumptions..... | 170,399 | 489,484 | 224,613 | 330,299 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 173,976 | 314,065 | 189,974 | 175,213 |
| Total Deferred Outflows of Resources..... | \$ 1,581,846 | \$ 4,358,275 | \$ 2,045,770 | \$ 2,904,206 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 229,345 | \$ 658,811 | \$ 302,313 | \$ 444,559 |
| Changes of assumptions..... | 35,514 | 102,016 | 46,813 | 68,840 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 189,381 | 154,388 | 187,997 | 107,975 |
| Total Deferred Inflows of Resources..... | \$ 454,240 | \$ 915,215 | \$ 537,123 | \$ 621,374 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 1,696,611 | \$ 4,873,577 | \$ 2,236,454 | \$ 3,288,707 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | (40,154) | 31,806 | (69,243) | 4,225 |
| Total Employer Pension Expense..... | \$ 1,656,457 | \$ 4,905,383 | \$ 2,167,211 | \$ 3,292,932 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 1,181,789 | \$ 3,394,659 | \$ 1,557,775 | \$ 2,290,716 |
| Contribution in relation to statutory required contribution..... | (1,181,789) | (3,394,659) | (1,557,775) | (2,290,716) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.12% | 25.12% | 25.12% | 25.12% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 460,439 | \$ 1,335,737 | \$ 601,640 | \$ 910,316 |
| June 30, 2022..... | 413,104 | 1,296,113 | 559,292 | 845,236 |
| June 30, 2023..... | 478,918 | 1,458,392 | 643,161 | 962,627 |
| June 30, 2024..... | (224,855) | (647,182) | (295,446) | (435,347) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ 1,127,606 | \$ 3,443,060 | \$ 1,508,647 | \$ 2,282,832 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 13,836,991 | \$ 39,747,776 | \$ 18,239,355 | \$ 26,821,410 |
| Current discount rate (7.875%)..... | \$ 10,924,945 | \$ 31,382,708 | \$ 14,400,815 | \$ 21,176,743 |
| 1% increase (8.875%)..... | \$ 8,388,485 | \$ 24,096,541 | \$ 11,057,358 | \$ 16,260,110 |
| Covered Payroll..... | \$ 4,704,986 | \$ 13,515,420 | \$ 6,201,920 | \$ 9,120,073 |
| 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, 2019

| | Kingston Housing Authority | Town of Lakeville | Town of Marion | Town of Marshfield |
|--|----------------------------------|----------------------|-------------------|-----------------------|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 18,412 | \$ 10,188,821 | \$ 10,311,809 | \$ 58,714,414 |
| Ending net pension liability..... | \$ 17,786 | \$ 9,606,700 | \$ 9,722,996 | \$ 55,321,130 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 2,015 | \$ 1,088,153 | \$ 1,101,326 | \$ 6,266,236 |
| Changes of assumptions..... | 277 | 149,838 | 151,652 | 862,857 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 8,163 | 132,324 | 74,507 | 473,817 |
| Total Deferred Outflows of Resources..... | \$ 10,455 | \$ 1,370,315 | \$ 1,327,485 | \$ 7,602,910 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 373 | \$ 201,671 | \$ 204,113 | \$ 1,161,345 |
| Changes of assumptions..... | 58 | 31,229 | 31,607 | 179,833 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 11,586 | 136,000 | 48,094 | 259,583 |
| Total Deferred Inflows of Resources..... | \$ 12,017 | \$ 368,900 | \$ 283,814 | \$ 1,600,761 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 2,761 | \$ 1,491,894 | \$ 1,509,955 | \$ 8,591,109 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | (2,657) | (23,503) | (8,549) | 189,841 |
| Total Employer Pension Expense..... | \$ 104 | \$ 1,468,391 | \$ 1,501,406 | \$ 8,780,950 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 1,935 | \$ 1,039,150 | \$ 1,051,710 | \$ 5,984,136 |
| Contribution in relation to statutory required contribution..... | (1,935) | (1,039,150) | (1,051,710) | (5,984,136) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.26% | 25.12% | 25.12% | 25.12% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 515 | \$ 405,040 | \$ 413,439 | \$ 2,429,954 |
| June 30, 2022..... | (1,140) | 368,711 | 388,250 | 2,203,565 |
| June 30, 2023..... | (596) | 425,332 | 442,005 | 2,509,139 |
| June 30, 2024..... | (341) | (197,668) | (200,023) | (1,140,509) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ (1,562) | \$ 1,001,415 | \$ 1,043,671 | \$ 6,002,149 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 22,527 | \$ 12,167,368 | \$ 12,314,663 | \$ 70,066,991 |
| Current discount rate (7.875%)..... | \$ 17,786 | \$ 9,606,700 | \$ 9,722,996 | \$ 55,321,130 |
| 1% increase (8.875%)..... | \$ 13,657 | \$ 7,376,299 | \$ 7,465,595 | \$ 42,477,147 |
| Covered Payroll..... | \$ 7,660 | \$ 4,137,265 | \$ 4,187,350 | \$ 23,824,850 |
| 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, 2019

| | Marshfield Housing Authority | Town of Mattapoissett | Town of Middleborough | Middleborough Housing Authority |
|--|------------------------------------|--------------------------|--------------------------|---------------------------------------|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 308,574 | \$ 11,312,647 | \$ 65,813,816 | \$ 1,101,733 |
| Ending net pension liability..... | \$ 290,739 | \$ 10,677,304 | \$ 62,077,904 | \$ 1,023,401 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 32,932 | \$ 1,209,420 | \$ 7,031,577 | \$ 115,921 |
| Changes of assumptions..... | 4,535 | 166,537 | 968,245 | 15,962 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 14,648 | 176,472 | 442,077 | 11,955 |
| Total Deferred Outflows of Resources..... | \$ 52,115 | \$ 1,552,429 | \$ 8,441,899 | \$ 143,838 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 6,103 | \$ 224,146 | \$ 1,303,189 | \$ 21,484 |
| Changes of assumptions..... | 945 | 34,709 | 201,798 | 3,327 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 19,964 | 214,338 | 298,467 | 18,539 |
| Total Deferred Inflows of Resources..... | \$ 27,012 | \$ 473,193 | \$ 1,803,454 | \$ 43,350 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 45,147 | \$ 1,658,186 | \$ 9,640,599 | \$ 158,886 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | (3,145) | (112,494) | (170,581) | (14,253) |
| Total Employer Pension Expense..... | \$ 42,002 | \$ 1,545,692 | \$ 9,470,018 | \$ 144,633 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 31,454 | \$ 1,154,986 | \$ 6,715,034 | \$ 110,732 |
| Contribution in relation to statutory required contribution..... | (31,454) | (1,154,986) | (6,715,034) | (110,732) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.12% | 25.12% | 25.12% | 25.12% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 11,920 | \$ 422,866 | \$ 2,587,624 | \$ 41,034 |
| June 30, 2022..... | 8,393 | 405,536 | 2,493,143 | 38,422 |
| June 30, 2023..... | 10,779 | 469,910 | 2,833,654 | 42,961 |
| June 30, 2024..... | (5,989) | (219,076) | (1,275,976) | (21,929) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ 25,103 | \$ 1,079,236 | \$ 6,638,445 | \$ 100,488 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 368,235 | \$ 13,523,342 | \$ 78,624,785 | \$ 1,296,189 |
| Current discount rate (7.875%)..... | \$ 290,739 | \$ 10,677,304 | \$ 62,077,904 | \$ 1,023,401 |
| 1% increase (8.875%)..... | \$ 223,238 | \$ 8,198,340 | \$ 47,665,192 | \$ 785,797 |
| Covered Payroll..... | \$ 125,211 | \$ 4,598,336 | \$ 26,734,753 | \$ 440,743 |
| 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, 2019

| | Town of Norwell | Norwell Housing Authority | Old Rochester Regional School | Onset Fire District |
|--|--------------------|---------------------------------|--|---------------------------|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 25,523,971 | \$ 329,194 | \$ 6,860,055 | \$ 2,372,113 |
| Ending net pension liability..... | \$ 24,043,088 | \$ 311,262 | \$ 6,465,351 | \$ 2,132,314 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 2,723,366 | \$ 35,257 | \$ 732,332 | \$ 241,528 |
| Changes of assumptions..... | 375,006 | 4,855 | 100,842 | 33,258 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 233,067 | 17,842 | 156,254 | 63,940 |
| Total Deferred Outflows of Resources..... | \$ 3,331,439 | \$ 57,954 | \$ 989,428 | \$ 338,726 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 504,732 | \$ 6,534 | \$ 135,726 | \$ 44,763 |
| Changes of assumptions..... | 78,157 | 1,012 | 21,017 | 6,932 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 150,495 | 11,089 | 86,810 | 148,803 |
| Total Deferred Inflows of Resources..... | \$ 733,384 | \$ 18,635 | \$ 243,553 | \$ 200,498 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 3,733,760 | \$ 48,340 | \$ 1,004,044 | \$ 330,846 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | 71,907 | 3,862 | 45,247 | (69,125) |
| Total Employer Pension Expense..... | \$ 3,805,667 | \$ 52,202 | \$ 1,049,291 | \$ 261,721 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 2,600,777 | \$ 33,683 | \$ 699,331 | \$ 230,621 |
| Contribution in relation to statutory required contribution..... | (2,600,777) | (33,683) | (699,331) | (230,621) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.12% | 25.13% | 25.12% | 25.11% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 1,060,574 | \$ 13,886 | \$ 286,402 | \$ 66,027 |
| June 30, 2022..... | 949,444 | 15,334 | 281,251 | 53,207 |
| June 30, 2023..... | 1,084,023 | 16,446 | 311,400 | 68,747 |
| June 30, 2024..... | (495,986) | (6,347) | (133,178) | (49,753) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ 2,598,055 | \$ 39,319 | \$ 745,875 | \$ 138,228 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 30,451,779 | \$ 394,229 | \$ 8,188,691 | \$ 2,700,682 |
| Current discount rate (7.875%)..... | \$ 24,043,088 | \$ 311,262 | \$ 6,465,351 | \$ 2,132,314 |
| 1% increase (8.875%)..... | \$ 18,460,971 | \$ 238,996 | \$ 4,964,281 | \$ 1,637,252 |
| Covered Payroll..... | \$ 10,354,506 | \$ 134,050 | \$ 2,784,397 | \$ 918,312 |
| 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, 2019

| | Town of Pembroke | Plymouth County Mosquito Control | Town of Plympton | Town of Rochester |
|--|---------------------|---|---------------------|----------------------|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 32,896,598 | \$ 2,206,412 | \$ 4,843,648 | \$ 7,668,680 |
| Ending net pension liability..... | \$ 31,158,326 | \$ 1,883,304 | \$ 4,378,187 | \$ 6,948,320 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 3,529,310 | \$ 213,322 | \$ 495,918 | \$ 787,038 |
| Changes of assumptions..... | 485,984 | 29,374 | 68,288 | 108,375 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 486,892 | 9,430 | 149,067 | 128,352 |
| Total Deferred Outflows of Resources..... | \$ 4,502,186 | \$ 252,126 | \$ 713,273 | \$ 1,023,765 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 654,100 | \$ 39,536 | \$ 91,910 | \$ 145,865 |
| Changes of assumptions..... | 101,287 | 6,122 | 14,232 | 22,587 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 250,455 | 100,713 | 191,095 | 176,340 |
| Total Deferred Inflows of Resources..... | \$ 1,005,842 | \$ 146,371 | \$ 297,237 | \$ 344,792 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 4,839,207 | \$ 291,909 | \$ 679,381 | \$ 1,078,246 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | 287,047 | (51,573) | 89,141 | 48,849 |
| Total Employer Pension Expense..... | \$ 5,126,254 | \$ 240,336 | \$ 768,522 | \$ 1,127,095 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 3,370,446 | \$ 203,688 | \$ 473,604 | \$ 751,595 |
| Contribution in relation to statutory required contribution..... | (3,370,446) | (203,688) | (473,604) | (751,595) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.12% | 25.11% | 25.12% | 25.12% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 1,459,599 | \$ 52,303 | \$ 230,082 | \$ 298,274 |
| June 30, 2022..... | 1,246,530 | 46,701 | 132,103 | 252,859 |
| June 30, 2023..... | 1,423,344 | 56,648 | 154,600 | 286,753 |
| June 30, 2024..... | (633,129) | (49,897) | (100,749) | (158,913) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ 3,496,344 | \$ 105,755 | \$ 416,036 | \$ 678,973 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 39,463,585 | \$ 2,385,300 | \$ 5,545,193 | \$ 8,800,396 |
| Current discount rate (7.875%)..... | \$ 31,158,326 | \$ 1,883,304 | \$ 4,378,187 | \$ 6,948,320 |
| 1% increase (8.875%)..... | \$ 23,924,254 | \$ 1,446,055 | \$ 3,361,697 | \$ 5,335,119 |
| Covered Payroll..... | \$ 13,418,787 | \$ 811,072 | \$ 1,885,530 | \$ 2,992,395 |
| 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, 2019

| | Town of Rockland | Town of Scituate | Scituate Housing Authority | Silver Lake Regional School |
|--|---------------------|---------------------|----------------------------------|-----------------------------------|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 39,383,272 | \$ 47,847,320 | \$ 1,113,516 | \$ 7,307,819 |
| Ending net pension liability..... | \$ 37,151,654 | \$ 45,072,067 | \$ 874,269 | \$ 6,762,247 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 4,208,176 | \$ 5,105,323 | \$ 99,029 | \$ 765,961 |
| Changes of assumptions..... | 579,464 | 703,000 | 13,636 | 105,472 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 375,498 | 445,144 | 57,508 | 19,368 |
| Total Deferred Outflows of Resources..... | \$ 5,163,138 | \$ 6,253,467 | \$ 170,173 | \$ 890,801 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 779,917 | \$ 946,189 | \$ 18,353 | \$ 141,958 |
| Changes of assumptions..... | 120,770 | 146,517 | 2,842 | 21,982 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 356,616 | 322,808 | 115,196 | 136,884 |
| Total Deferred Inflows of Resources..... | \$ 1,257,303 | \$ 1,415,514 | \$ 136,391 | \$ 300,824 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 5,769,601 | \$ 6,999,447 | \$ 135,355 | \$ 1,049,791 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | (182,019) | 96,749 | (4,871) | (258,089) |
| Total Employer Pension Expense..... | \$ 5,587,582 | \$ 7,096,196 | \$ 130,484 | \$ 791,702 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 4,018,752 | \$ 4,875,453 | \$ 94,553 | \$ 731,463 |
| Contribution in relation to statutory required contribution..... | (4,018,752) | (4,875,453) | (94,553) | (731,463) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.12% | 25.12% | 25.11% | 25.12% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 1,527,964 | \$ 1,969,468 | \$ 26,062 | \$ 181,574 |
| June 30, 2022..... | 1,465,514 | 1,772,054 | 17,052 | 259,843 |
| June 30, 2023..... | 1,675,744 | 2,026,188 | 18,581 | 294,944 |
| June 30, 2024..... | (763,387) | (929,757) | (27,913) | (146,384) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ 3,905,835 | \$ 4,837,953 | \$ 33,782 | \$ 589,977 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 47,054,436 | \$ 57,086,038 | \$ 1,107,306 | \$ 8,564,726 |
| Current discount rate (7.875%)..... | \$ 37,151,654 | \$ 45,072,067 | \$ 874,269 | \$ 6,762,247 |
| 1% increase (8.875%)..... | \$ 28,526,103 | \$ 34,607,623 | \$ 671,289 | \$ 5,192,247 |
| Covered Payroll..... | \$ 15,999,901 | \$ 19,410,942 | \$ 376,517 | \$ 2,912,260 |
| 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, 2019

| | South Shore Regional School | Town of Wareham | Wareham Fire District | Wareham Housing Authority |
|--|-----------------------------------|--------------------|--------------------------|---------------------------------|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 3,719,085 | \$ 40,225,037 | \$ 7,738,643 | \$ 293,844 |
| Ending net pension liability..... | \$ 3,496,393 | \$ 36,399,837 | \$ 7,159,020 | \$ 277,057 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 396,037 | \$ 4,123,017 | \$ 810,904 | \$ 31,382 |
| Changes of assumptions..... | 54,534 | 567,737 | 111,661 | 4,321 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 37,408 | 128,547 | 58,603 | 12,501 |
| Total Deferred Outflows of Resources..... | \$ 487,979 | \$ 4,819,301 | \$ 981,168 | \$ 48,204 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 73,399 | \$ 764,134 | \$ 150,288 | \$ 5,816 |
| Changes of assumptions..... | 11,366 | 118,326 | 23,272 | 901 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 19,233 | 704,963 | 55,038 | 7,502 |
| Total Deferred Inflows of Resources..... | \$ 103,998 | \$ 1,587,423 | \$ 228,598 | \$ 14,219 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 542,951 | \$ 5,648,426 | \$ 1,111,113 | \$ 43,029 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | 10,514 | (302,441) | 56,455 | (955) |
| Total Employer Pension Expense..... | \$ 553,465 | \$ 5,345,985 | \$ 1,167,568 | \$ 42,074 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 378,178 | \$ 3,937,419 | \$ 774,365 | \$ 29,943 |
| Contribution in relation to statutory required contribution..... | (378,178) | (3,937,419) | (774,365) | (29,943) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.12% | 25.12% | 25.12% | 25.09% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 151,044 | \$ 1,363,745 | \$ 323,539 | \$ 11,670 |
| June 30, 2022..... | 143,732 | 1,255,643 | 273,286 | 13,696 |
| June 30, 2023..... | 161,715 | 1,447,761 | 310,810 | 14,319 |
| June 30, 2024..... | (72,510) | (835,271) | (155,065) | (5,700) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ 383,981 | \$ 3,231,878 | \$ 752,570 | \$ 33,985 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 4,428,358 | \$ 46,102,222 | \$ 9,067,258 | \$ 350,907 |
| Current discount rate (7.875%)..... | \$ 3,496,393 | \$ 36,399,837 | \$ 7,159,020 | \$ 277,057 |
| 1% increase (8.875%)..... | \$ 2,684,631 | \$ 27,948,837 | \$ 5,496,900 | \$ 212,732 |
| Covered Payroll..... | \$ 1,505,773 | \$ 15,676,120 | \$ 3,083,136 | \$ 119,319 |
| 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, 2019

| | Town of West Bridgewater | Town of Whitman | Whitman/ Hanson Regional School | Whitman Housing Authority |
|--|-----------------------------|--------------------|--|---------------------------------|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 20,311,361 | \$ 19,555,024 | \$ 11,886,343 | \$ 828,509 |
| Ending net pension liability..... | \$ 19,159,357 | \$ 18,452,007 | \$ 11,200,634 | \$ 352,307 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 2,170,184 | \$ 2,090,063 | \$ 1,268,698 | \$ 39,906 |
| Changes of assumptions..... | 298,833 | 287,801 | 174,699 | 5,495 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 265,964 | 232,202 | 69,781 | 34,327 |
| Total Deferred Outflows of Resources..... | \$ 2,734,981 | \$ 2,610,066 | \$ 1,513,178 | \$ 79,728 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 402,208 | \$ 387,359 | \$ 235,133 | \$ 7,396 |
| Changes of assumptions..... | 62,282 | 59,982 | 36,410 | 1,145 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 141,863 | 238,349 | 92,009 | 251,571 |
| Total Deferred Inflows of Resources..... | \$ 606,353 | \$ 685,690 | \$ 363,552 | \$ 260,112 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 2,975,422 | \$ 2,865,584 | \$ 1,739,410 | \$ 53,483 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | 12,250 | (87,119) | (143,159) | (139,317) |
| Total Employer Pension Expense..... | \$ 2,987,672 | \$ 2,778,465 | \$ 1,596,251 | \$ (85,834) |
| Contributions | | | | |
| Statutory required contribution..... | \$ 2,072,457 | \$ 1,995,986 | \$ 1,211,606 | \$ 38,139 |
| Contribution in relation to statutory required contribution..... | (2,072,457) | (1,995,986) | (1,211,606) | (38,139) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.12% | 25.12% | 25.12% | 25.14% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 812,667 | \$ 760,638 | \$ 419,466 | \$ (57,416) |
| June 30, 2022..... | 806,701 | 717,783 | 449,990 | (45,509) |
| June 30, 2023..... | 903,017 | 824,817 | 511,010 | (45,969) |
| June 30, 2024..... | (393,757) | (378,862) | (230,840) | (31,490) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ 2,128,628 | \$ 1,924,376 | \$ 1,149,626 | \$ (180,384) |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 24,266,288 | \$ 23,370,394 | \$ 14,186,166 | \$ 446,214 |
| Current discount rate (7.875%)..... | \$ 19,159,357 | \$ 18,452,007 | \$ 11,200,634 | \$ 352,307 |
| 1% increase (8.875%)..... | \$ 14,711,102 | \$ 14,167,979 | \$ 8,600,167 | \$ 270,511 |
| Covered Payroll..... | \$ 8,251,256 | \$ 7,946,625 | \$ 4,823,716 | \$ 151,726 |
| 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, 2019

| | Abington Housing Authority | Pembroke Housing Authority | Hanson Housing Authority | Rockland Housing Authority |
|--|----------------------------------|----------------------------------|--------------------------------|----------------------------------|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 399,157 | \$ 961,807 | \$ 296,790 | \$ 617,884 |
| Ending net pension liability..... | \$ 376,250 | \$ 905,053 | \$ 277,057 | \$ 574,637 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 42,618 | \$ 102,516 | \$ 31,382 | \$ 65,089 |
| Changes of assumptions..... | 5,868 | 14,116 | 4,321 | 8,963 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 10,000 | 48,304 | 5,533 | 31,839 |
| Total Deferred Outflows of Resources..... | \$ 58,486 | \$ 164,936 | \$ 41,236 | \$ 105,891 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 7,899 | \$ 19,000 | \$ 5,816 | \$ 12,063 |
| Changes of assumptions..... | 1,223 | 2,942 | 901 | 1,868 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 4,347 | 33,214 | 4,676 | 20,291 |
| Total Deferred Inflows of Resources..... | \$ 13,469 | \$ 55,156 | \$ 11,393 | \$ 34,222 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 58,433 | \$ 140,549 | \$ 43,022 | \$ 89,157 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | 2,177 | (6,608) | 3,956 | 7,910 |
| Total Employer Pension Expense..... | \$ 60,610 | \$ 133,941 | \$ 46,978 | \$ 97,067 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 40,707 | \$ 97,937 | \$ 29,999 | \$ 62,117 |
| Contribution in relation to statutory required contribution..... | (40,707) | (97,937) | (29,999) | (62,117) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.12% | 25.13% | 25.14% | 25.10% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 17,221 | \$ 34,062 | \$ 13,692 | \$ 26,221 |
| June 30, 2022..... | 17,164 | 46,453 | 10,346 | 28,368 |
| June 30, 2023..... | 18,361 | 47,972 | 11,662 | 29,344 |
| June 30, 2024..... | (7,729) | (18,707) | (5,857) | (12,264) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ 45,017 | \$ 109,780 | \$ 29,843 | \$ 71,669 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 476,540 | \$ 1,146,295 | \$ 350,907 | \$ 727,807 |
| Current discount rate (7.875%)..... | \$ 376,250 | \$ 905,053 | \$ 277,057 | \$ 574,637 |
| 1% increase (8.875%)..... | \$ 288,896 | \$ 694,926 | \$ 212,732 | \$ 441,223 |
| Covered Payroll..... | \$ 162,038 | \$ 389,774 | \$ 119,319 | \$ 247,476 |
| 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, 2019

| | Halifax Housing Authority | Mattapoisett Housing Authority | Acushnet/ Rochester/ Marion Health District | West Bridgewater Housing Authority |
|--|---------------------------------|--------------------------------------|--|---|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 521,408 | \$ 193,687 | \$ 149,500 | \$ 133,298 |
| Ending net pension liability..... | \$ 176,496 | \$ 180,600 | \$ 142,975 | \$ 125,189 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 19,992 | \$ 20,457 | \$ 16,195 | \$ 14,180 |
| Changes of assumptions..... | 2,753 | 2,817 | 2,230 | 1,953 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 88,972 | 2,947 | 4,721 | 7,095 |
| Total Deferred Outflows of Resources..... | \$ 111,717 | \$ 26,221 | \$ 23,146 | \$ 23,228 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 3,705 | \$ 3,791 | \$ 3,001 | \$ 2,628 |
| Changes of assumptions..... | 574 | 587 | 465 | 407 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 224,517 | 4,169 | 4,034 | 4,157 |
| Total Deferred Inflows of Resources..... | \$ 228,796 | \$ 8,547 | \$ 7,500 | \$ 7,192 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 26,507 | \$ 28,040 | \$ 22,210 | \$ 19,443 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | (82,385) | (3,558) | (5,977) | 1,531 |
| Total Employer Pension Expense..... | \$ (55,878) | \$ 24,482 | \$ 16,233 | \$ 20,974 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 19,075 | \$ 19,503 | \$ 15,465 | \$ 13,543 |
| Contribution in relation to statutory required contribution..... | (19,075) | (19,503) | (15,465) | (13,543) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ - |
| Contributions as a percentage of covered payroll..... | 25.10% | 25.08% | 25.12% | 25.12% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ (39,128) | \$ 7,405 | \$ 4,308 | \$ 5,711 |
| June 30, 2022..... | (26,700) | 6,621 | 6,885 | 6,327 |
| June 30, 2023..... | (29,805) | 7,488 | 7,299 | 6,583 |
| June 30, 2024..... | (21,446) | (3,840) | (2,846) | (2,585) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ (117,079) | \$ 17,674 | \$ 15,646 | \$ 16,036 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 223,541 | \$ 228,739 | \$ 181,086 | \$ 158,558 |
| Current discount rate (7.875%)..... | \$ 176,496 | \$ 180,600 | \$ 142,975 | \$ 125,189 |
| 1% increase (8.875%)..... | \$ 135,519 | \$ 138,670 | \$ 109,781 | \$ 96,123 |
| Covered Payroll..... | \$ 76,011 | \$ 77,778 | \$ 61,574 | \$ 53,914 |
| 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, 2019

| | South Shore Tri-Town Development | Carver Housing Authority | Plymouth County Retirement Association | Totals |
|--|--|--------------------------------|---|----------------|
| Net Pension Liability | | | | |
| Beginning net pension liability..... | \$ 1,195,262 | \$ 201,788 | \$ - | \$ 732,557,005 |
| Ending net pension liability..... | \$ 1,130,120 | \$ 190,862 | \$ - | \$ 682,247,415 |
| Deferred Outflows of Resources | | | | |
| Differences between expected and actual experience..... | \$ 128,009 | \$ 21,619 | \$ - | \$ 77,487,215 |
| Changes of assumptions..... | 17,627 | 2,977 | - | 10,669,949 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 132,295 | 3,688 | - | 9,227,629 |
| Total Deferred Outflows of Resources..... | \$ 277,931 | \$ 28,284 | \$ - | \$ 97,384,793 |
| Deferred Inflows of Resources | | | | |
| Net difference between projected and actual investment earnings on pension plan investments..... | \$ 23,724 | \$ 4,007 | \$ - | \$ 14,360,999 |
| Changes of assumptions..... | 3,674 | 620 | - | 2,223,789 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions..... | 76,242 | 4,065 | - | 9,227,629 |
| Total Deferred Inflows of Resources..... | \$ 103,640 | \$ 8,692 | \$ - | \$ 25,812,417 |
| Pension Expense | | | | |
| Proportionate share of plan pension expense..... | \$ 175,513 | \$ 29,554 | \$ 199,497 | \$ 107,443,103 |
| Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions..... | 65,186 | (6,618) | - | - |
| Total Employer Pension Expense..... | \$ 240,699 | \$ 22,936 | \$ 199,497 | \$ 107,443,103 |
| Contributions | | | | |
| Statutory required contribution..... | \$ 122,242 | \$ 20,267 | \$ 199,497 | \$ 73,787,092 |
| Contribution in relation to statutory required contribution..... | (122,242) | (20,267) | (199,497) | (74,462,092) |
| Contribution deficiency/(excess)..... | \$ - | \$ - | \$ - | \$ (675,000) |
| Contributions as a percentage of covered payroll..... | 25.12% | 24.66% | N/A | 25.05% |
| Deferred (Inflows)/Outflows Recognized in Future Pension Expense | | | | |
| June 30, 2021..... | \$ 65,536 | \$ 5,690 | \$ - | \$ 28,720,637 |
| June 30, 2022..... | 65,104 | 8,600 | - | 27,157,580 |
| June 30, 2023..... | 66,716 | 9,207 | - | 30,249,950 |
| June 30, 2024..... | (23,065) | (3,905) | - | (14,555,791) |
| Total Deferred (Inflows)/Outflows Recognized in Future Pension Expense..... | \$ 174,291 | \$ 19,592 | \$ - | \$ 71,572,376 |
| Discount Rate Sensitivity | | | | |
| 1% decrease (6.875%)..... | \$ 1,431,354 | \$ 241,736 | \$ - | \$ 866,436,543 |
| Current discount rate (7.875%)..... | \$ 1,130,120 | \$ 190,862 | \$ - | \$ 682,247,415 |
| 1% increase (8.875%)..... | \$ 867,738 | \$ 146,549 | \$ - | \$ 525,265,208 |
| Covered Payroll..... | \$ 486,703 | \$ 82,197 | \$ - | \$ 294,614,062 |
| 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 cost-sharing 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, pension expense, and contributions.

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 the Association'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 Association. The Public Employee Retirement Administration Commission (PERAC) approves each Association's proportionate share of the annual required contribution. PERAC can accept alternative allocation methodologies and as such, the Association has elected to use an actuarial based allocation methodology. Accordingly, each member unit's proportionate share of the total pension liability is calculated based on each member unit's actual current employees, retirees and inactive participants. The liability of the Association is allocated to each member unit. Each member's share of the Association's net position at year-end is calculated by first segregating the historical excess contributions of each individual member unit. Investment income is applied to each excess contribution utilizing the Association's money-weighted rate of return of each year since the excess contribution was received. The Association's net position, less the excess contributions net of investment income, is then allocated to the member units based on their proportionate share of the total pension liability. The excess contributions net of investment income is then assigned to the appropriate member unit. The difference between the total pension liability and the net position is reported as the net pension liability.

The Plymouth County Hospital was operated by Plymouth County from the early 1900s to 1992, when it was closed, and all employees were terminated. The remaining retirement allowances due from the Plymouth County Retirement Association to the former employees of the Plymouth County Hospital were actuarially determined and are included with the County's liability. Plymouth County continues to pay for the retirement obligations related to previously retired Hospital employees.

When a member unit accepts an Early Retirement Incentive Program (E.R.I. or ERIP), PERAC completes an analysis of the costs and liabilities attributable to the additional benefits payable in accordance with the ERIP. The accrued liability for the members who accept the ERIP as retirees including the ERIP less the accrued liability for the members as active employees excluding the ERIP represents the increase in accrued liability due to the ERIP. The net increase is amortized for each member unit accepting the ERIP and is separately identified in the Association's funding schedule. All Early Retirement Incentive Programs are being amortized using a straight-line basis.

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.