

**CITY OF STAMFORD,  
CONNECTICUT  
FIREFIGHTERS'  
PENSION TRUST FUND**

**FINANCIAL STATEMENTS  
JUNE 30, 2018**

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
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## **Independent Auditors' Report**

To the Board of Trustees  
Firefighters' Pension Trust Fund  
City of Stamford, Connecticut

We have audited the accompanying financial statements of the City of Stamford, Connecticut Firefighters' Pension Trust Fund (the Fund), which comprise the statement of net position as of June 30, 2018 and the related statement of changes in net position for the year then ended, and the related notes to the financial statements.

### **Management's Responsibility for the Financial Statements**

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

### **Auditors' Responsibility**

Our responsibility is to express 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. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditors consider internal control relevant to the Fund'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 Fund'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 net position of the Fund as of June 30, 2018, and the related changes in net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

## Emphasis of Matter

As discussed in Note 1, the financial statements present only the Fund's financial position and do not purport to, and do not, present the financial position of the City of Stamford, Connecticut, and the changes in its financial position in conformity with accounting principles generally accepted in the United States of America.

## Report on Required Supplemental Information

Accounting principles generally accepted in the United States of America require that the schedule of changes in net pension liability and related ratios on page 14, the schedule of employer contributions on page 15 and the schedule of investment returns on page 16 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, which considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

*Blum, Shapiro & Company, P.C.*

West Hartford, Connecticut  
December 28, 2018

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
STATEMENT OF NET POSITION  
JUNE 30, 2018**

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**Assets**

Cash and cash equivalents	\$ <u>1,562,845</u>
Investments, at fair value:	
U.S. Government obligations	2,646,625
Corporate bonds	2,940,729
Common and preferred equities	49,532,263
Mutual funds	13,337,285
Alternative investments/hedge funds	68,690,354
Total investments	<u>137,147,256</u>
Receivables:	
Accounts and other receivables	29,314
Accrued interest	<u>43,448</u>
Total receivables	<u>72,762</u>
Total assets	138,782,863

**Liabilities**

Accounts payable and accrued expenses	<u>77,209</u>
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**Net Position**

Restricted for Pension Benefits	\$ <u><u>138,705,654</u></u>
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The accompanying notes are an integral part of the financial statements

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
STATEMENT OF CHANGES IN NET POSITION  
FOR THE YEAR ENDED JUNE 30, 2018**

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**Additions**

## Contributions:

Employer	\$ 6,980,000
Employee	1,319,247
Total contributions	<u>8,299,247</u>

## Investment income:

Net appreciation in fair value of investments	11,435,393
Interest and dividends	1,555,924
Total investment income	<u>12,991,317</u>
Investment expenses	<u>(1,670,966)</u>
Net investment income	<u>11,320,351</u>

Total additions	<u>19,619,598</u>
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**Deductions**

Benefit payments	10,490,257
Administrative expenses	87,311
Total deductions	<u>10,577,568</u>

Net change	9,042,030
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<b>Net Position at Beginning of Year</b>	<u>129,663,624</u>
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<b>Net Position at End of Year</b>	<u><u>\$ 138,705,654</u></u>
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The accompanying notes are an integral part of the financial statements

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
NOTES TO THE FINANCIAL STATEMENTS  
JUNE 30, 2018**

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**1. REPORTING ENTITY AND PLAN DESCRIPTION**

**A. Reporting Entity**

The Firefighters' Pension Trust Fund (the Fund) of the City of Stamford, Connecticut (the City) is reported as a fiduciary fund in the City's basic financial statements.

The financial statements present the Fund's financial position only and do not purport to, and do not, present the financial position of the City and the changes in its financial position in conformity with accounting principles generally accepted in the United States of America.

**B. Administration and Management**

A Board of Trustees manages the Fund. The board consists of five (5) members, two (2) appointed by the Mayor's Office, two (2) agreed to by the union and one (1) independent member as agreed to by the Mayor's Office appointees and the union.

**C. Trust Fund Custody**

Under the terms of trust agreements between National Financial Services LLC and Merrill Lynch, Pierce, Fenner & Smith, Incorporated (the Custodians) and the Fund, the Custodians administer the accounts on behalf of the Fund. Investment managers have been granted certain discretionary authority concerning purchases and sales of investments in the trust.

**D. Covered Employees**

Coverage is extended to all full-time firefighters employed by the City.

**E. Participation**

Participation in the Fund consisted of the following at July 1, 2017:

Retirees and beneficiaries currently receiving benefits	234
Inactive plan members entitled to but not yet receiving benefits	2
Active participants	<u>257</u>
	<u><u>493</u></u>

**F. Summary of Benefit Provisions**

The Fund is a contributory single employer defined benefit plan authorized under the collective bargaining agreement between the City and Local 786 of the International Association of Firefighters (the Union). The Fund is supported by the joint contributions of its participants and the City.

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
NOTES TO THE FINANCIAL STATEMENTS  
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Retirement benefits are payable to participants with 20 years of service and for those participants who were hired in 1981 or later, after attainment of age 48. Participants who reach age 65 with less than 20 years of service are also eligible for benefits. Upon retirement, annual benefits are paid equal to 50% of final salary, as defined, plus 2% for each year of credited service over 20 years, up to a maximum of 74% of final salary. The collective bargaining agreement allows participants to exchange vacation leave for up to 7.5% additional pension credit (1.5% for each 20 days exchanged).

For participants who were hired after July 1, 2016, annual retirement benefits are paid equal to the lesser of the average of their three highest years of pensionable earnings or 2.25% of final salary times the number of years of credited service; maximum benefit of 100% of pensionable earnings.

Disability benefits are payable at 50% to 100% of salary during the participant's last year of service as of the date of disability, but not less than the accrued retirement benefit. If participants are terminated from the City, they may elect a withdrawal benefit equal to the refund of their contributions without interest.

Death benefits are paid to beneficiaries as an annuity equal to 50% of salary at the time of death. The Fund also provides for lump sum death benefits for beneficiaries primarily equal to the refund of the participant's contributions without interest, less any benefits paid.

For participants who were hired after July 1, 2016, the post retirement spousal benefit is only available to the beneficiary if that beneficiary was the employee's spouse at the time of retirement and if the employee made the joint and survivorship elections at the time of retirement.

Participants should not rely solely upon this synopsis of pension benefit provisions. The City's Charter, together with the pension provisions of the collective bargaining agreement, are at all times the official source of plan provisions.

## **G. Contributions**

The City's contribution to the Fund is actuarially determined and is intended to set aside amounts to cover the cost related to both current and future services rendered by the Fund's participants. The actuary spreads these service costs over the aggregate working lifetime of active participants based on actual current and assumed future payrolls to arrive at the City's annual contribution. The City is required to contribute the greater of this actuarially determined amount or some minimum contribution as indicated in the City Charter.

The Fund participant's contributions are established by the collective bargaining agreement between the Union and the City and may be amended over time. Currently, Fund participants contribute 6.25% of their salary until they have reached 32 years of credited service.

## **2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

### **A. Basis of Accounting**

The financial statements were prepared using the accrual basis of accounting. Participant contributions are recognized in the period in which the contributions are due. Employer contributions are recognized when due and the employer has made a formal commitment to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the Fund.



**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
NOTES TO THE FINANCIAL STATEMENTS  
JUNE 30, 2018**

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The accounting policies of the Fund predominantly follow Governmental Accounting Standards Board guidance, which is the accepted standard-setting body for establishing governmental accounting and financial reporting principles.

**B. Use of Estimates**

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (GAAP) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the reported amounts of additions and deductions as reflected in the statement of changes in net position during the reporting period. Actual results could differ from those estimates.

**C. Investment Valuation and Income Recognition**

Investments are reported at fair value. Investment assets consist principally of short-term investments, United States Government and agency securities, common and preferred stocks, corporate bonds and alternative investments. Short-term investments are stated at cost, which approximates fair value. Fair value of other securities is determined by the means of the most recent bid and asked prices as obtained from dealers that make markets in such securities. Alternative investments include hedge funds and other investments. The fair value of the hedge funds has been estimated using the net asset value (NAV) as reported by the management of the fund. GAAP guidance provides for the use of NAV as a practical expedient for estimating the fair value of alternative investments and the hedge funds have used NAV to estimate the fair value of the Fund's interest therein. Alternative investments for which market quotations are not readily available are valued at the fair values as determined by the fund managers. All such assets are carried at fair value; losses are incurred only up to the assets invested. Private placement securities are valued at an estimated fair value as determined by the fund managers. Factors considered in valuing private placements include: the cost, restrictions on disposition, prices of recent additional financings by the same issuer, changes in the financial condition of the issuer, pending mergers and acquisitions, and estimates of liquidation value. Private placement securities of a public company are priced daily at a 20% discount to market price. The discount is removed when the security becomes freely tradable (marketable). Private placement securities of private companies are carried at cost at acquisition. Adjustments to the pricing of the private placement will be made upon the occurrence of significant events as determined by the fund manager.

Purchases and sales of securities are recorded on a trade date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation (depreciation) includes the Fund's gains and losses on investments bought and sold as well as held during the year.

**D. Administrative Expenses**

Certain administrative expenses of the Fund are paid by the City.

**E. Subsequent Events Evaluation by Management**

Management has evaluated subsequent events for disclosure and/or recognition in the financial statements through December 28, 2018, the date that the financial statements were available to be issued.

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
NOTES TO THE FINANCIAL STATEMENTS  
JUNE 30, 2018**

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**3. INVESTMENTS**

Investments at June 30, 2018 consist of the following:

Cash and cash equivalents	\$ 1,562,845
U.S. Government obligations	2,646,625
Corporate bonds	2,940,729
Common and preferred equities	49,532,263
Mutual funds	13,337,285
Alternative investments/hedge funds	<u>68,690,354</u>
	<u>\$ 138,710,101</u>

The Fund's investment policy targets an asset mix to provide the probability of meeting or exceeding the return objectives at the lowest possible risk and remain in accordance with state statutes. The target asset allocation at June 30, 2018 is as follows:

<u>Asset Class</u>	<u>Target Allocation</u>
Large Cap Equities	35.00 %
International Equities	20.00
Small Cap Equities	15.00
High Quality Bonds	14.00
Alternative Investments	10.00
Emerging Markets	2.00
High Yield	2.00
International Income	<u>2.00</u>
Total Allocation	<u>100.00 %</u>

**A. Concentrations**

The following investments represent 5% or more of the Fund's net position at June 30, 2018:

Omega Overseas Partners	\$ 11,314,721
Beach Point Total Return Offshore Fund II	\$ 10,116,382
Boyd Watterson GSA Fund LP	\$ 13,337,538

The Fund's policy is to maintain a diversified portfolio to minimize the risk of loss resulting from over concentration of assets.

Private placements are restricted securities that are not registered with the Securities and Exchange Commission for public sale in the United States of America. These securities may have contractual restrictions on resale and may be revalued under methods approved by the fund manager as to fair value. A security may be considered illiquid if it lacks a readily available market.

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
NOTES TO THE FINANCIAL STATEMENTS  
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The following are the minimum ratings for corporate bonds as of June 30, 2018:

<u>Average Rating</u>	<u>Amount</u>
Aaa	\$ 131,149
A1	147,276
A2	607,845
A3	385,009
Aa1	72,277
Aa2	194,303
Aa3	151,227
Baa1	616,464
Baa2	188,547
C	295,742
Unrated	<u>150,890</u>
	<u>\$ 2,940,729</u>

The Fund's investments in corporate bonds and U.S. Government obligations mature as follows:

<u>Type of Investment</u>	<u>Fair Value</u>	<u>Investment Maturities</u>		
		<u>Less than 1 Year</u>	<u>1-10 Years</u>	<u>Over 10 Years</u>
Corporate bonds	\$ 2,940,729	\$ 688,844	\$ 1,801,031	\$ 450,854
U.S. Government obligations	<u>2,646,625</u>		<u>2,070,186</u>	<u>576,439</u>
	<u>\$ 5,587,354</u>	<u>\$ 688,844</u>	<u>\$ 3,871,217</u>	<u>\$ 1,027,293</u>

**B. Rate of Return**

For the year ended June 30, 2018, the annual money-weighted rate of return on pension plan investments, net of Fund investment expense, was 8.60%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
NOTES TO THE FINANCIAL STATEMENTS  
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**C. Fair Value**

The Fund categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements); followed by quoted prices in inactive markets or for similar assets or with observable inputs (Level 2 measurements); and the lowest priority to unobservable inputs (Level 3 measurements). The Fund has the following recurring fair value measurements as of June 30, 2018:

	<u>June 30, 2018</u>	<u>Fair Value Measurements Using</u>		
		<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>
Investments by fair value level:				
U.S. Government obligations	\$ 2,646,625	\$ 2,646,625	\$	\$
Corporate bonds	2,940,729	2,940,729		
Common and preferred equities	49,532,263	47,843,711	1,688,552	
Mutual funds	<u>13,337,285</u>	<u>13,337,285</u>		
 Total investments by fair value level	 68,456,902	 \$ <u>66,768,350</u>	 \$ <u>1,688,552</u>	 \$ <u>-</u>
Investments Measured at NAV:				
Alternative investments/hedge funds	<u>68,690,354</u>			
 Total Investments Measured at Fair Value	 \$ <u>137,147,256</u>			

Debt and equity securities classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets for those securities. Debt securities classified as Level 2 of the fair value hierarchy are valued using a matrix pricing technique. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices.

The valuation method for investments measured at the NAV per share (or its equivalent) is presented on the following table.

	<u>Fair Value</u>	<u>Unfunded Commitments</u>	<u>Redemption Frequency (If Currently Eligible)</u>	<u>Redemption Notice Period</u>
Alternative investments	\$ 24,770,558	\$ 9,224,963	N/A	N/A
Alternative investments	40,756,505	-	Quarterly	45-90 days
Alternative investments	<u>3,163,291</u>	-	Monthly	185 days
 Total Investments Measured at NAV	 \$ <u>68,690,354</u>			

The above include investments in 15 alternative investments, which invest in various types of investments. The fair values of the investments in this type have been determined using the NAV per share of the investments.

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
NOTES TO THE FINANCIAL STATEMENTS  
JUNE 30, 2018**

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**4. NET PENSION LIABILITY OF THE CITY**

The components of the net pension liability of the City pertaining to this Fund at June 30, 2018 were as follows:

Total pension liability	\$ 203,733,235
Plan fiduciary net position	<u>138,705,654</u>
Net Pension Liability	<u>\$ 65,027,581</u>
Plan fiduciary net position as a percentage of the total pension liability	68.08%

**A. Actuarial Assumptions**

The total pension liability was determined by an actuarial valuation as of July 1, 2017, using the following actuarial assumptions, applied to all periods included in the measurement.

Inflation	2.75%
Salary increases	2.75% annually to project normal cost only
Investment rate of return	7.20%

Mortality rates were based on the RP-2000 Mortality Table with separate male and female rates, with blue collar adjustment, combined table for non-annuitants and annuitants, projected to the valuation date with Scale BB.

The long-term expected rate of return on Fund investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of Fund investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the Fund's target asset allocation as of June 30, 2018 (see the discussion of the Fund's investment policy) are summarized in the following table:

<u>Asset Class</u>	<u>Long-Term Expected Real Rate of Return</u>
International Equities	5.50 %
Small Cap Equities	5.50
Alternative Investments	5.00
Large Cap Equities	4.65
Emerging Markets	3.75
High Yield	3.25
International Income	2.00
High Quality Bonds	1.95

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
NOTES TO THE FINANCIAL STATEMENTS  
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**B. Discount Rate**

The discount rate used to measure the total pension liability was 7.20%. The projection of cash flows used to determine the discount rate assumed that participant contributions will be made at the current contribution rate and that City contributions will be made at rates equal to the difference between actuarially determined contribution rates and the participant rate. Based on those assumptions, the Fund's fiduciary net position was projected to be available to make all projected future benefit payments of current participants. Therefore, the long-term expected rate of return on Fund investments was applied to all periods of projected benefit payments to determine the total pension liability.

**C. Sensitivity of the Net Pension Liability to Changes in the Discount Rate**

The following presents the City's net pension liability, calculated using the discount rate of 7.20%, as well as what the City's net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (6.20%) or 1 percentage point higher (8.20%) than the current rate:

	<u>1% Decrease to 6.20%</u>	<u>Current Discount Rate 7.20%</u>	<u>1% Increase to 8.20%</u>
Net Pension Liability as of June 30, 2018	\$ 89,924,543	\$ 65,027,581	\$ 44,106,558

**5. RISKS AND UNCERTAINTIES**

The assets of the Fund are primarily financial instruments that are monetary in nature. Accordingly, interest rates have a more significant impact on the Fund's performance than do the effects of the general levels of inflation. Interest rates generally do not move in the same direction or with the same magnitude as prices of goods and services as measured by the consumer price index. Investments are subject to risk conditions of the individual investment's objectives, stock market performance, interest rates, economic conditions and world affairs. Due to the level of risk associated with the Fund's investments, it is reasonably possible that changes in the values of the Fund's investments will occur in the near term and that such changes could materially affect the amounts reported in the statement of net position.

Contributions are made to the Fund based on the actuarial valuation. The actuarial valuation is based on certain assumptions pertaining to interest rates, inflation rates and employee demographics, all of which are subject to change. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near term would be material to the financial statements.

**A. Interest Rate Risk**

The Fund limits its exposure to realized losses arising from changes in interest rates by structuring the investment portfolio so that securities mature to meet cash requirements for benefit payments, thereby avoiding the need to sell securities on the open market prior to maturity.

The interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment the greater the sensitivity of its fair value to changes in market interest rates. See Note 3 for the maturities of such investments.

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
NOTES TO THE FINANCIAL STATEMENTS  
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**B. Credit Risk**

Credit risk is the risk that an issuer of a debt type investment will not fulfill its obligation to the holder of the investment. This is measured by assignment of a rating by a nationally recognized rating organization. See Note 3 for the rating of such securities.

**C. Custodial Credit Risk**

Custodial credit risk for investments is the risk that, in the event of the failure of the counterparty to a transaction, the value of the investment or collateral securities that are in the possession of an outside party may not be recovered. Investments are exposed to custodial credit risk if the securities are uninsured, are not registered in the name of the Fund, and are held by either the counterparty or the counterparty's trust department or agent but not in the Fund's name. The Fund's investments are not exposed to custodial credit risk as they are held by the Custodians in the name of the Fund.

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS  
LAST FIVE FISCAL YEARS\***

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Total pension liability:					
Service cost	\$ 3,798,387	\$ 3,555,727	\$ 3,468,981	\$ 3,053,426	\$ 2,964,491
Interest	13,816,473	12,778,225	12,339,942	12,773,960	12,287,263
Differences between expected and actual experience	3,543,971	4,817,829		(4,349,248)	
Changes of assumptions	1,137,658	3,441,972		2,792,894	
Benefit payments, including refunds of member contributions	<u>(10,490,257)</u>	<u>(10,411,803)</u>	<u>(9,436,881)</u>	<u>(9,168,689)</u>	<u>(8,956,725)</u>
Net change in total pension liability	11,806,232	14,181,950	6,372,042	5,102,343	6,295,029
Total pension liability - beginning	<u>191,927,003</u>	<u>177,745,053</u>	<u>171,373,011</u>	<u>166,270,668</u>	<u>159,975,639</u>
Total pension liability - ending	<u>203,733,235</u>	<u>191,927,003</u>	<u>177,745,053</u>	<u>171,373,011</u>	<u>166,270,668</u>
Plan fiduciary net position:					
Contributions - employer	6,980,000	5,140,000	4,342,000	3,515,000	3,119,000
Contributions - member	1,319,247	1,543,551	1,240,582	1,175,378	1,189,553
Net investment income (loss)	11,320,351	16,677,565	(4,185,113)	(191,595)	15,059,772
Benefit payments, including refunds of member contributions	(10,490,257)	(10,411,803)	(9,436,881)	(9,168,689)	(8,956,725)
Administrative expense	(87,311)	(85,487)	(117,287)	(106,441)	(247,774)
Other			18,030		
Net change in plan fiduciary net position	<u>9,042,030</u>	<u>12,863,826</u>	<u>(8,138,669)</u>	<u>(4,776,347)</u>	<u>10,163,826</u>
Plan fiduciary net position - beginning	<u>129,663,624</u>	<u>116,799,798</u>	<u>124,938,467</u>	<u>129,714,814</u>	<u>119,550,988</u>
Plan fiduciary net position - ending	<u>138,705,654</u>	<u>129,663,624</u>	<u>116,799,798</u>	<u>124,938,467</u>	<u>129,714,814</u>
Net Pension Liability - Ending	<u>\$ 65,027,581</u>	<u>\$ 62,263,379</u>	<u>\$ 60,945,255</u>	<u>\$ 46,434,544</u>	<u>\$ 36,555,854</u>
Plan fiduciary net position as a percentage of the total pension liability	68.08%	67.56%	65.71%	72.90%	78.01%
Covered payroll	\$ 22,756,531	\$ 23,382,336	\$ 21,610,577	\$ 20,981,143	\$ 21,475,500
Net pension liability as a percentage of covered payroll	285.75%	266.28%	282.02%	221.32%	170.22%
Notes to Schedule:					
<i>Assumption Changes:</i>					
Inflation	2.75%	2.75%	3.00%	3.00%	3.00%
Investment rate of return	7.20%	7.25%	7.25%	7.25%	7.75%
Salary increases - annually to project normal cost only	2.75%	2.75%	3.00%	3.00%	3.00%
Mortality:					
RP-2000 Mortality Table with separate male and female rates, with blue collar adjustment, combined table for non-annuitants and annuitants, projected to the valuation date with Scale BB.	**	**			
RP-2000 Mortality Table with separate male and female rates, with blue collar adjustment, combined table for non-annuitants and annuitants, projected to the valuation date with Scale AA.			**	**	**

\* Schedule is intended to show information for 10 years - additional years will be displayed as they become available

\*\* Applicable for that particular year



**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
SCHEDULE OF EMPLOYER CONTRIBUTIONS  
LAST TEN FISCAL YEARS**

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>	<u>2009</u>
Actuarially determined contribution	\$ 6,980,000	\$ 5,140,000	\$ 4,342,000	\$ 3,575,000	\$ 3,119,000	\$ 2,340,000	\$ 2,080,000	\$ 1,717,000	\$ 406,000	\$ 406,000
Contributions in relation to the actuarially determined contribution	<u>6,980,000</u>	<u>5,140,000</u>	<u>4,342,000</u>	<u>3,515,000</u>	<u>3,119,000</u>	<u>2,340,000</u>	<u>2,080,000</u>	<u>1,717,000</u>	<u>406,000</u>	<u>65,000</u>
Contribution Deficiency (Excess)	\$ <u>-</u>	\$ <u>-</u>	\$ <u>-</u>	\$ <u>60,000</u>	\$ <u>-</u>	\$ <u>-</u>	\$ <u>-</u>	\$ <u>-</u>	\$ <u>-</u>	\$ <u>341,000</u>
Covered payroll	\$ 22,756,531	\$ 23,382,336	\$ 21,610,577	\$ 20,981,143	\$ 21,475,500	\$ 20,850,000	\$ 22,638,000	\$ 21,663,000	\$ 19,292,000	\$ 18,461,000
Contributions as a percentage of covered payroll	30.67%	21.98%	20.09%	16.75%	14.52%	11.22%	9.19%	7.93%	2.10%	0.35%

## Notes to Schedule

Valuation date: July 1, 2017

Measurement date: June 30, 2018

Actuarially determined contribution rates are calculated as of June 30, two years prior to the end of the fiscal year in which contributions are reported

## Methods and assumptions used to determine contribution rates:

Actuarial cost method	Projected Unit Credit
Remaining amortization period	15 years, closed
Asset valuation method	5-year smoothed market
Inflation	2.75%
Salary increases	2.75%, only used to project normal cost to the next year
Investment rate of return	7.20%; Prior Valuation: 7.25%

Retirement age: Age based table

Mortality: RP-2000 Mortality Table with separate male and female rates, with blue collar adjustment, combined table for non-annuitants and annuitants, projected to the valuation date with Scale BB.

**CITY OF STAMFORD, CONNECTICUT  
FIREFIGHTERS' PENSION TRUST FUND  
SCHEDULE OF INVESTMENT RETURNS  
LAST FIVE FISCAL YEARS\***

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	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Annual money-weighted rate of return, net of investment expense	8.60%	14.22%	(3.38)%	(0.15)%	12.67%

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