

CITY OF LIVE OAK  
FIREFIGHTERS' SUBSTITUTE PENSION TRUST FUND  
ACTUARIAL VALUATION  
AS OF OCTOBER 1, 2022  
CONTRIBUTIONS APPLICABLE TO THE  
PLAN/FISCAL YEAR ENDING SEPTEMBER 30, 2023  
GASB 67/68 DISCLOSURE INFORMATION  
AS OF SEPTEMBER 30, 2022



**FOSTER & FOSTER**  
ACTUARIES AND CONSULTANTS

January 3, 2023

Board of Trustees  
City of Live Oak  
Firefighters' Pension Board

Re: City of Live Oak Firefighters' Substitute Pension Trust Fund

Dear Board:

We are pleased to present to the Board this report of the annual actuarial valuation of the City of Live Oak Firefighters' Substitute Pension Trust Fund. Included are the related results for GASB Statements No. 67 and No. 68. The funding valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits and to develop the appropriate funding requirements for the applicable plan year. The calculation of the liability for GASB results was performed for the purpose of satisfying the requirements of GASB Statements No. 67 and No. 68. Use of the results for other purposes may not be applicable and may produce significantly different results.

The valuations have been conducted in accordance with generally accepted actuarial principles and practices, including the applicable Actuarial Standards of Practice as issued by the Actuarial Standards Board, and reflect laws and regulations issued to date pursuant to the provisions of Chapters 112 and 175, Florida Statutes, as well as applicable federal laws and regulations. In our opinion, the assumptions used in the valuations, as adopted by the Board of Trustees, represent reasonable expectations of anticipated plan experience. Future actuarial measurements may differ significantly from the current measurements presented in this report for a variety of reasons including: changes in applicable laws, changes in plan provisions, changes in assumptions, or plan experience differing from expectations. Due to the limited scope of the valuations, we did not perform an analysis of the potential range of such future measurements.

In conducting the valuations, we have relied on personnel, plan design, and asset information supplied by the City of Live Oak, financial reports prepared by the custodian bank, and the actuarial assumptions and methods described in the Actuarial Assumptions section of this report. While we cannot verify the accuracy of all this information, the supplied information was reviewed for consistency and reasonableness. As a result of this review, we have no reason to doubt the substantial accuracy of the information and believe that it has produced appropriate results. This information, along with any adjustments or modifications, is summarized in various sections of this report.

The total pension liability, net pension liability, and certain sensitivity information shown in this report are based on an actuarial valuation performed as of October 1, 2020. The total pension liability was rolled-forward from the valuation date to the plan's fiscal year ending September 30, 2022 using generally accepted actuarial principles. It is our opinion that the assumptions used for this purpose are internally consistent, reasonable, and comply with the requirements under GASB No. 67 and No. 68.


The undersigned are familiar with the immediate and long-term aspects of pension valuations, and meet the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinions contained herein. All of the sections of this report are considered an integral part of the actuarial opinions.

To our knowledge, no associate of Foster & Foster, Inc. working on valuations of the program has any direct financial interest or indirect material interest in the City of Live Oak, nor does anyone at Foster & Foster, Inc. act as a member of the Board of Trustees of the Firefighters' Substitute Pension Trust Fund. Thus, there is no relationship existing that might affect our capacity to prepare and certify this actuarial report.

If there are any questions, concerns, or comments about any of the items contained in this report, please contact us at 239-433-5500.

Respectfully submitted,

Foster & Foster, Inc.

By:   
\_\_\_\_\_  
Douglas H. Lozen, EA, MAAA  
Enrolled Actuary #20-7778

By:   
\_\_\_\_\_  
Mateusz M. Wajda

DHL/lke

Enclosures

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SUMMARY OF REPORT

The regular annual actuarial valuation of the City of Live Oak Firefighters' Substitute Pension Trust Fund, performed as of October 1, 2022, has been completed and the results are presented in this Report. The contribution amounts set forth herein are applicable to the plan/fiscal year ending September 30, 2023.

The contribution requirements, compared with those set forth in the October 1, 2020 actuarial valuation report, are as follows:

Valuation Date	10/1/2022	10/1/2020
Applicable to Fiscal Year Ending	<u>9/30/2023</u>	<u>9/30/2021</u>
Minimum Required Contribution	\$73,256	\$60,869

As you can see, the Minimum Required Contribution increased in comparison to results set forth in the October 1, 2020 valuation report. This increase is attributable to an average investment return of 1.30% (gross-of-fees, Market Value Basis) over the last two years, falling short of the 6.75% assumption.

## CHANGES SINCE PRIOR VALUATION

### Plan Changes

There have been no changes in benefits since the prior valuation.

### Actuarial Assumption/Method Changes

There have been no assumption or method changes since the prior valuation.

COMPARATIVE SUMMARY OF PRINCIPAL VALUATION RESULTS

	<u>10/1/2022</u>	<u>10/1/2020</u>
<b>A. Participant Data</b>		
Actives	0	0
Service Retirees	4	5
Beneficiaries	3	2
Disability Retirees	0	0
Terminated Vested	<u>0</u>	<u>0</u>
 Total	 7	 7
 Payroll Under Assumed Ret. Age	 0	 0
 Annual Rate of Payments to:		
Service Retirees	137,211	154,276
Beneficiaries	37,874	28,113
Disability Retirees	0	0
Terminated Vested	0	0
 <b>B. Assets</b>		
Actuarial Value (AVA)	1,396,812	1,619,625
Market Value (MVA)	1,396,812	1,619,625
 <b>C. Liabilities</b>		
<b>Present Value of Benefits</b>		
Actives		
Retirement Benefits	0	0
Disability Benefits	0	0
Death Benefits	0	0
Vested Benefits	0	0
Refund of Contributions	0	0
Service Retirees	1,500,846	1,707,430
Beneficiaries	298,700	224,145
Disability Retirees	0	0
Terminated Vested	<u>0</u>	<u>0</u>
 Total	 1,799,546	 1,931,575

C. Liabilities - (Continued)	<u>10/1/2022</u>	<u>10/1/2020</u>
Present Value of Future Salaries	N/A	N/A
Present Value of Future Lifetimes	68.34	70.83
Total Normal Cost	<u>41,252</u>	<u>30,830</u>
Present Value of Future Normal Costs	0	0
Accrued Liability (Retirement)	0	0
Accrued Liability (Disability)	0	0
Accrued Liability (Death)	0	0
Accrued Liability (Vesting)	0	0
Accrued Liability (Refunds)	0	0
Accrued Liability (Inactives)	<u>1,799,546</u>	<u>1,931,575</u>
Total Actuarial Accrued Liability (EAN AL)	1,799,546	1,931,575
Unfunded Actuarial Accrued Liability (UAAL)	N/A	N/A
Funded Ratio (AVA / EAN AL)	77.6%	83.8%



D. Actuarial Present Value of Accrued Benefits	<u>10/1/2022</u>	<u>10/1/2020</u>
Vested Accrued Benefits		
Inactives	1,799,546	1,931,575
Actives	0	0
Member Contributions	0	0
Total	<u>1,799,546</u>	<u>1,931,575</u>
Non-vested Accrued Benefits	<u>0</u>	<u>0</u>
Total Present Value		
Accrued Benefits (PVAB)	1,799,546	1,931,575
Funded Ratio (MVA / PVAB)	77.6%	83.8%
Increase (Decrease) in Present Value of Accrued Benefits Attributable to:		
Plan Amendments	0	
Assumption Changes	0	
Plan Experience	(24,796)	
Benefits Paid	(352,790)	
Interest	245,557	
Other	0	
Total	<u>(132,029)</u>	

Valuation Date	10/1/2022	10/1/2020
Applicable to Fiscal Year Ending	<u>9/30/2023</u>	<u>9/30/2021</u>
E. Pension Cost		
Normal Cost <sup>1</sup>	\$44,037	\$32,911
Administrative Expenses <sup>1</sup>	29,219	27,958
Payment Required to Amortize Unfunded Actuarial Accrued Liability over 10 years (as of 10/1/2022) <sup>1</sup>	0	0
Minimum Required Contribution	73,256	60,869
Expected Member Contributions <sup>1</sup>	0	0
Expected City Contribution	73,256	60,869
F. Past Contributions		
Plan Years Ending:	<u>9/30/2022</u>	<u>9/30/2021</u>
City Requirement	60,869	60,869
Actual Contributions Made:		
City	<u>60,869</u>	<u>60,869</u>
Total	60,869	60,869
G. Net Actuarial (Gain)/Loss	N/A	

<sup>1</sup> Interest adjustment assumes a lump sum City deposit on each September 30th following the valuation date.

H. Schedule Illustrating the Amortization of the Total Unfunded Actuarial Accrued Liability as of:

<u>Year</u>	<u>Projected Unfunded Actuarial Accrued Liability</u>
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N/A – Aggregate Actuarial Cost Method

I. 5 Year Comparison of Investment Return on Market Value and Actuarial Value

		<u>Market Value</u>	<u>Actuarial Value</u>	<u>Assumed</u>
Year Ended	9/30/2022	-15.75%	-15.75%	6.75%
Year Ended	9/30/2021	21.81%	21.81%	6.75%
Year Ended	9/30/2020	6.66%	6.66%	7.50%
Year Ended	9/30/2019	3.66%	3.66%	7.50%
Year Ended	9/30/2018	11.14%	11.14%	7.50%

STATEMENT BY ENROLLED ACTUARY

This actuarial valuation was prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

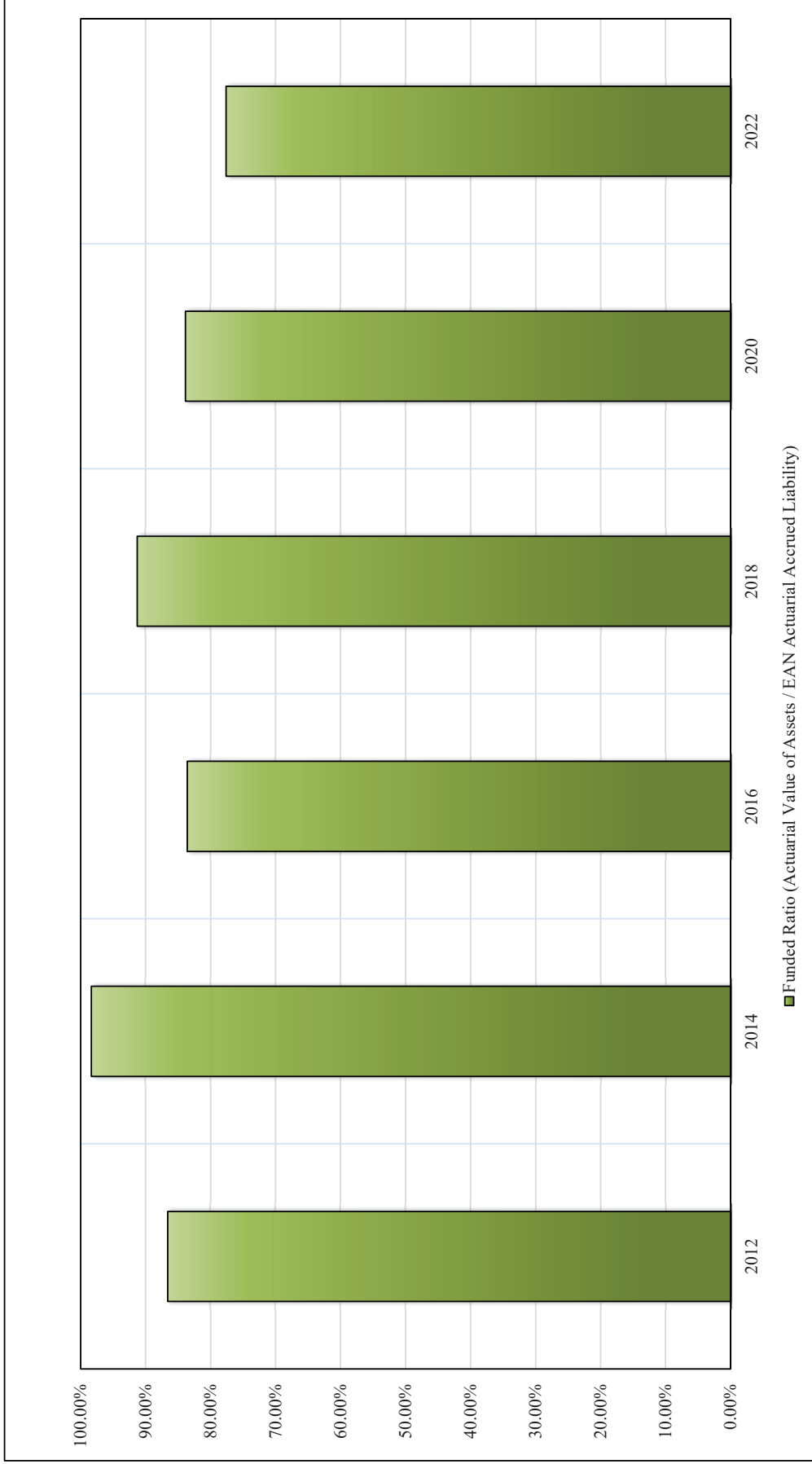


Douglas H. Lozen, EA, MAAA  
Enrolled Actuary #20-7778

Please let us know when the report is approved by the Board and unless otherwise directed we will provide copies of the report to the following offices to comply with Chapter 112, Florida Statutes:

Mr. Keith Brinkman  
Bureau of Local  
Retirement Systems  
Post Office Box 9000  
Tallahassee, FL 32315-9000

# HISTORY OF FUNDING PROGRESS



## ACTUARIAL ASSUMPTIONS AND METHODS

### Mortality Rate

#### *Healthy Retiree Lives:*

**Female:** PubS.H-2010 for Healthy Retirees, set forward one year. Prior year assumption: RP2000 Generational, 100% Annuitant White Collar, Scale BB.

**Male:** PubS.H-2010 (Below Median) for Healthy Retirees, set forward one year. Prior year assumption: RP2000 Generational, 10% Annuitant White Collar / 90% Annuitant Blue Collar, Scale BB.

#### *Beneficiary Lives:*

**Female:** PubG.H-2010 (Below Median) for Healthy Retirees. Prior year assumption: RP2000 Generational, 100% Annuitant White Collar, Scale BB.

**Male:** PubG.H-2010 (Below Median) for Healthy Retirees, set back one year. Prior year assumption: RP2000 Generational, 10% Annuitant White Collar / 90% Annuitant Blue Collar, Scale BB.

All rates are projected generationally with Mortality Improvement Scale MP-2018. We feel this assumption sufficiently accommodates future mortality improvements.

The previously described mortality assumption rates were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumptions used in either of the two most recent valuations of the Florida Retirement System (FRS). The above rates are those outlined in Milliman's July 1, 2021 FRS valuation report for special risk employees.

### Interest Rate

6.75% per year compounded annually, gross of investment related expenses. This is supported by the target asset allocation of the trust and the expected long-term return by asset class.

### Administrative Expenses

\$27,371 annually, based on the average of actual expenses incurred in the prior two fiscal years (administrative plus investment-related).

### Payroll Growth

None.

### Asset Method

Fair Market Value.

Funding Method

Aggregate Actuarial Cost Method. An interest load equal to one year at the valuation assumption is applied for determination of the Minimum Required Contribution.

## GLOSSARY

Present Value of Benefits is the single sum value on the valuation date of all future benefits to be paid to Retirees, Beneficiaries, and Disability Retirees.

Normal (Current Year's) Cost is determined in the aggregate as the ratio of (a) and (b) as follows:

- (a) The present value of benefits for all Retirees and Beneficiaries, less the actuarial value of assets.
  
- (a) The average expected future lifetime of all Retirees and Beneficiaries.

Aggregate Actuarial Cost Method is the method used to determine required contributions under the Plan. The use of this method involves spreading the cost of the plan over the average expected future lifetimes of all Retirees and Beneficiaries.

Total Required Contribution is equal to the Normal Cost plus an adjustment for interest according to the timing of sponsor contributions during the year.



## DISCUSSION OF RISK

ASOP No. 51, Assessment and Disclosure of Risk Associated with Measuring Pension Obligations and Determining Pension Plan Contributions, states that the actuary should identify risks that, in the actuary's professional judgment, may reasonably be anticipated to significantly affect the plan's future financial condition.

Throughout this report, actuarial results are determined using various actuarial assumptions. These results are based on the premise that all future plan experience will align with the plan's actuarial assumptions; however, there is no guarantee that actual plan experience will align with the plan's assumptions. It is possible that actual plan experience will differ from anticipated experience in an unfavorable manner that will negatively impact the plan's funded position.

Below are examples of ways in which plan experience can deviate from assumptions and the potential impact of that deviation. Typically, this results in an actuarial gain or loss representing the financial impact on the plan's normal cost of the experience differing from assumptions; this gain or loss is spread over a period of time determined by the average future working lifetime of the current active membership as of the valuation date. When assumptions are selected that adequately reflect plan experience, gains and losses typically offset one another in the long term, resulting in a relatively low impact on the plan's contribution requirements associated with plan experience. When assumptions are too optimistic, losses can accumulate over time and the plan's normal cost could potentially grow to an unmanageable level.

- Investment Return: When the rate of return on the Actuarial Value of Assets falls short of the assumption, this produces a loss representing assumed investment earnings that were not realized. Further, it is unlikely that the plan will experience a scenario that matches the assumed return in each year as capital markets can be volatile from year to year. Therefore, contribution amounts can vary in the future.
- Demographic Assumptions: Actuarial results take into account various potential events that could happen to a plan participant, such as death. This potential event is assigned a liability based on the likelihood of the event and the financial consequence of the event for the plan. Accordingly, actuarial liabilities reflect a blend of financial consequences associated with various possible outcomes (such as death at one of various possible ages). Once the outcome is known (e.g. the participant dies) the liability is adjusted to reflect the known outcome. This adjustment produces a gain or loss depending on whether the outcome was more or less favorable than other outcomes that could have occurred.

## Impact of Plan Maturity on Risk

For newer pension plans, most of the participants and associated liabilities are related to active members who have not yet reached retirement age. As pension plans continue in operation and active members reach retirement ages, liabilities begin to shift from being primarily related to active members to being shared amongst active and retired members. Plan maturity is a measure of the extent to which this shift has occurred. It is important to understand that plan maturity can have an impact on risk tolerance and the overall risk characteristics of the plan. For example, closed plans with a large amount of retired liability do not have as long of a time horizon to recover from losses (such as losses on investments due to lower than expected investment returns) as plans where the majority of the liability is attributable to active members. For this reason, less tolerance for investment risk may be warranted for highly mature closed plans with a substantial inactive liability. Similarly, mature closed plans paying substantial retirement benefits resulting in a small positive or net negative cash flow can be more sensitive to near term investment volatility, particularly if the size of the fund is shrinking, which can result in less assets being available for investment in the market.

To assist with determining the maturity of the plan, we have provided some relevant metrics in the table following titled “Plan Maturity Measures and Other Risk Metrics”. Highlights of this information are discussed below:

- The Support Ratio, determined as the ratio of active to inactive members, has decreased from 11.1% on October 1, 2012 to 0.0% on October 1, 2022.
- The Accrued Liability Ratio, determined as the ratio of the Inactive Accrued Liability, which is the liability associated with members who are no longer employed but are due a benefit from the plan, to the Total Accrued Liability, is 100.0%. With a plan of this maturity, losses due to lower than expected investment returns or demographic factors may result in larger increases in contribution requirements than would be needed for a less mature plan. Please note Chapter 112, Florida Statutes, requires that the plan sponsor contributes the minimum required contribution; thus, there is minimal solvency risk to the plan.
- The Funded Ratio, determined as the ratio of the Actuarial Value of Assets to the Total Accrued Liability, has decreased from 86.6% on October 1, 2012 to 77.6% on October 1, 2022.
- The Net Cash Flow Ratio, determined as the ratio of the Net Cash Flow (contributions minus benefit payments and administrative expenses) to the Market Value of Assets, decreased from -6.9% on October 1, 2012 to -10.0% on October 1, 2022. The current Net Cash Flow Ratio of -10.0% indicates that contributions are not currently covering the plan's benefit payments and administrative expenses.

It is important to note that the actuary has identified the risks in this section as the most significant risks based on the characteristics of the plan and the nature of the project, however, it is not an exhaustive list of potential risks that could be considered. Additional advanced modeling, as well as the identification of additional risks, can be provided at the request of the audience addressed on page 2 of this report.

PLAN MATURITY MEASURES AND OTHER RISK METRICS

	<u>10/1/2022</u>	<u>10/1/2020</u>	<u>10/1/2017</u>	<u>10/1/2012</u>
<u>Support Ratio</u>				
Total Actives	0	0	0	1
Total Inactives	7	7	7	9
Actives / Inactives	0.0%	0.0%	0.0%	11.1%
<u>Asset Volatility Ratio</u>				
Market Value of Assets (MVA)	1,396,812	1,619,625	1,735,684	1,837,464
Total Annual Payroll	0	0	0	0
MVA / Total Annual Payroll	N/A	N/A	N/A	N/A
<u>Accrued Liability (AL) Ratio</u>				
Inactive Accrued Liability	1,799,546	1,931,575	1,956,806	2,121,590
Total Accrued Liability (EAN)	1,799,546	1,931,575	1,956,806	2,121,590
Inactive AL / Total AL	100.0%	100.0%	100.0%	100.0%
<u>Funded Ratio</u>				
Actuarial Value of Assets (AVA)	1,396,812	1,619,625	1,735,684	1,837,464
Total Accrued Liability (EAN)	1,799,546	1,931,575	1,956,806	2,121,590
AVA / Total Accrued Liability (EAN)	77.6%	83.8%	88.7%	86.6%
<u>Net Cash Flow Ratio</u>				
Net Cash Flow <sup>1</sup>	(139,563)	(151,551)	(160,273)	(127,176)
Market Value of Assets (MVA)	1,396,812	1,619,625	1,735,684	1,837,464
Ratio	-10.0%	-9.4%	-9.2%	-6.9%

<sup>1</sup> Determined as total contributions minus benefit payments and administrative expenses.

STATEMENT OF FIDUCIARY NET POSITION  
SEPTEMBER 30, 2021

<u>ASSETS</u>	COST VALUE	MARKET VALUE
Cash and Cash Equivalents:		
Cash	29,974.90	29,974.90
Total Cash and Equivalents	29,974.90	29,974.90
Receivables:		
From Broker for Investments Sold	1,431.46	1,431.46
Investment Income	2,511.98	2,511.98
Total Receivable	3,943.44	3,943.44
Investments:		
U. S. Bonds and Bills	273,922.09	282,483.74
Federal Agency Guaranteed Securities	52,913.14	51,712.46
Corporate Bonds	249,033.52	254,721.42
Stocks	838,109.33	1,187,933.09
Total Investments	1,413,978.08	1,776,850.71
Total Assets	1,447,896.42	1,810,769.05
 <u>LIABILITIES</u>		
Payables:		
To Broker for Investments Purchased	144.73	144.73
Total Liabilities	144.73	144.73
NET POSITION RESTRICTED FOR PENSIONS	1,447,751.69	1,810,624.32

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION  
FOR THE YEAR ENDED SEPTEMBER 30, 2021  
Market Value Basis

ADDITIONS

Contributions:			
City		60,869.00	
Total Contributions			60,869.00
Investment Income:			
Net Realized Gain (Loss)	181,739.91		
Unrealized Gain (Loss)	126,581.63		
Net Increase in Fair Value of Investments		308,321.54	
Interest & Dividends		28,907.76	
Less Investment Expense <sup>1</sup>		(16,235.89)	
Net Investment Income			320,993.41
Total Additions			381,862.41
<u>DEDUCTIONS</u>			
Distributions to Members:			
Benefit Payments		176,283.73	
Total Distributions			176,283.73
Administrative Expense			14,579.00
Total Deductions			190,862.73
Net Increase in Net Position			190,999.68
NET POSITION RESTRICTED FOR PENSIONS			
Beginning of the Year			1,619,624.64
End of the Year			1,810,624.32
Actuarial Asset Rate of Return			21.8%
Actuarial Gain/(Loss) due to Investment Return			232,839.89

<sup>1</sup>Investment related expenses include investment advisory, custodial and performance monitoring fees.

STATEMENT OF FIDUCIARY NET POSITION  
SEPTEMBER 30, 2022

<u>ASSETS</u>	COST VALUE	MARKET VALUE
Cash and Cash Equivalents:		
Cash	33,126.42	33,126.42
Total Cash and Equivalents	33,126.42	33,126.42
Receivables:		
From Broker for Investments Sold	533.35	533.35
Investment Income	2,289.88	2,289.88
Total Receivable	2,823.23	2,823.23
Investments:		
U. S. Bonds and Bills	328,128.78	307,373.20
Federal Agency Guaranteed Securities	52,910.60	45,580.21
Corporate Bonds	200,673.25	181,901.56
Stocks	793,256.02	826,006.98
Total Investments	1,374,968.65	1,360,861.95
Total Assets	1,410,918.30	1,396,811.60
 <u>LIABILITIES</u>		
Total Liabilities	0.00	0.00
 NET POSITION RESTRICTED FOR PENSIONS	 1,410,918.30	 1,396,811.60

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION  
FOR THE YEAR ENDED SEPTEMBER 30, 2022  
Market Value Basis

ADDITIONS

Contributions:			
City		60,869.00	
Total Contributions			60,869.00
Investment Income:			
Net Realized Gain (Loss)	71,576.20		
Unrealized Gain (Loss)	(373,834.89)		
Net Increase in Fair Value of Investments		(302,258.69)	
Interest & Dividends		28,009.74	
Less Investment Expense <sup>1</sup>		(15,940.45)	
Net Investment Income			(290,189.40)
Total Additions			(229,320.40)
<u>DEDUCTIONS</u>			
Distributions to Members:			
Benefit Payments		176,506.32	
Total Distributions			176,506.32
Administrative Expense			7,986.00
Total Deductions			184,492.32
Net Increase in Net Position			(413,812.72)
NET POSITION RESTRICTED FOR PENSIONS			
Beginning of the Year			1,810,624.32
End of the Year			1,396,811.60
Actuarial Asset Rate of Return			-15.8%
Actuarial Gain/(Loss) due to Investment Return			(391,755.81)

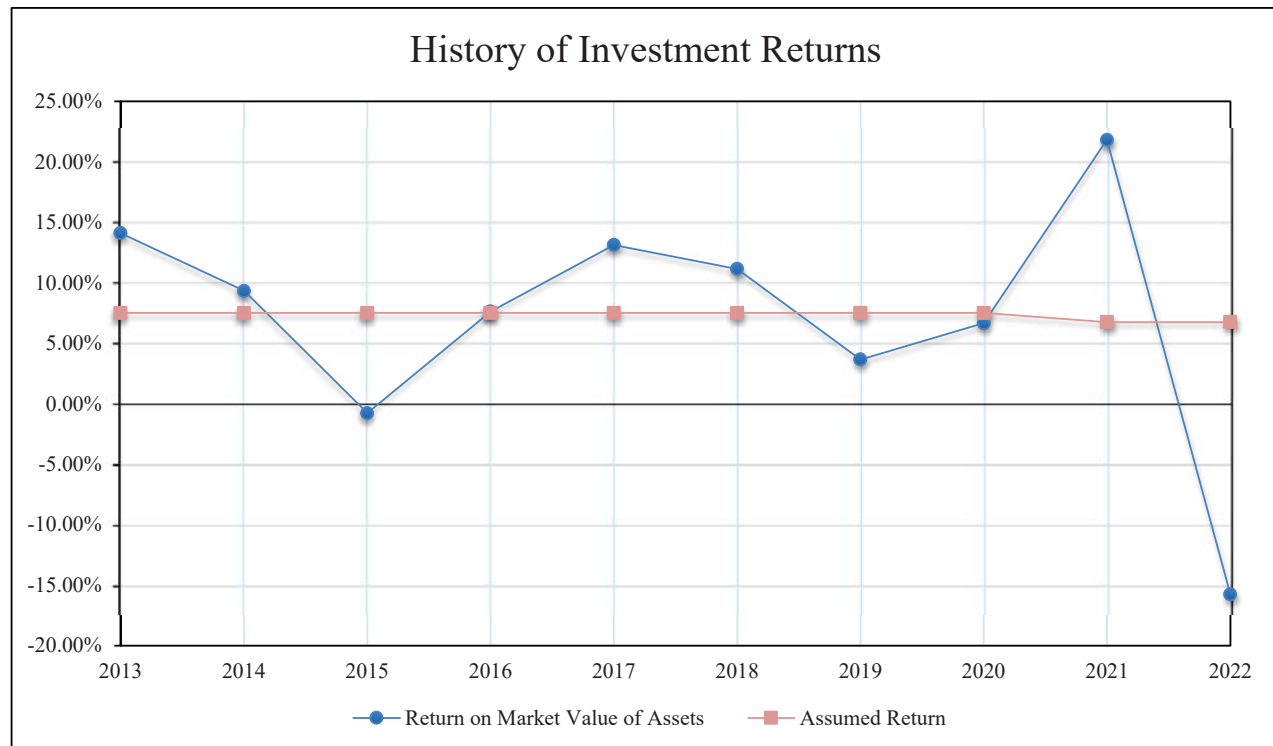
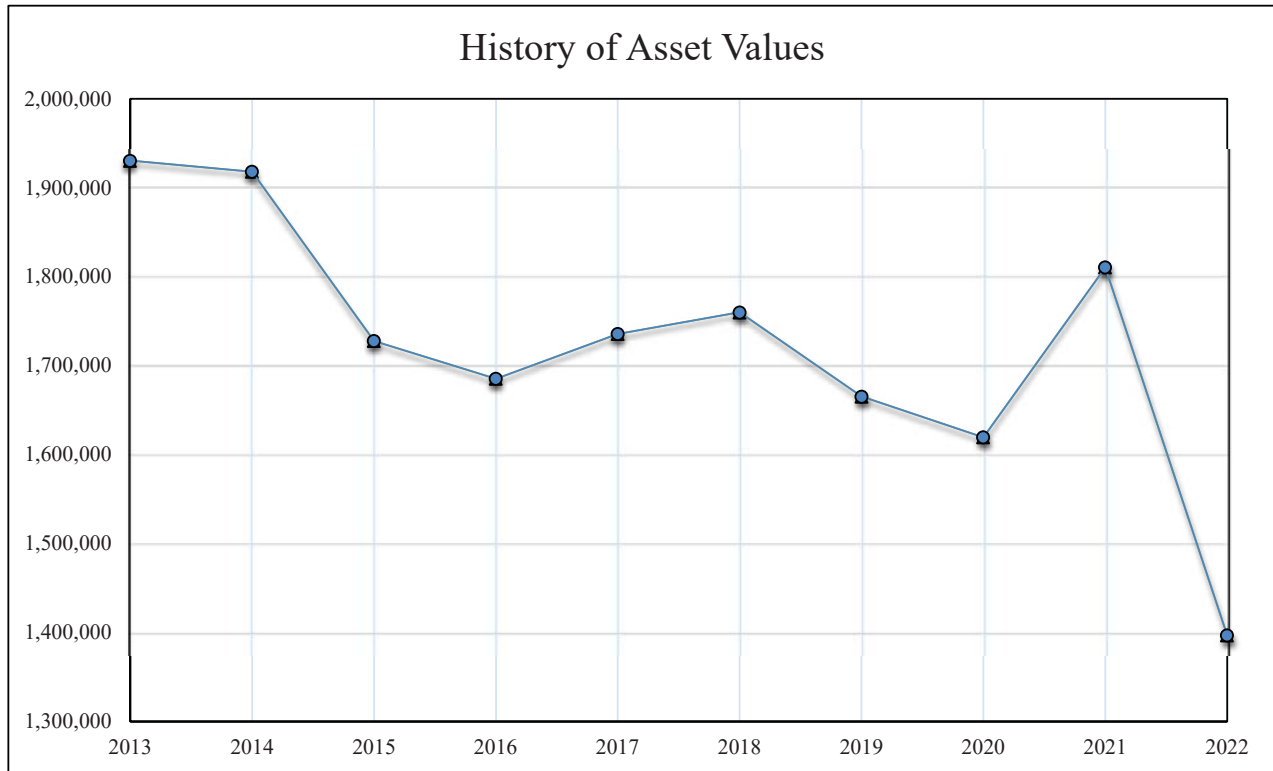
<sup>1</sup>Investment related expenses include investment advisory, custodial and performance monitoring fees.

RECONCILIATION OF CITY SHORTFALL/(PREPAID) CONTRIBUTION  
FOR THE FISCAL YEAR ENDED (FYE) SEPTEMBER 30, 2022

(1)	Required Contributions (Fiscal 2021)	\$60,869.00
(2)	Less Prepaid Contribution (Fiscal 2021)	-
(3)	Less Actual City Contributions (Fiscal 2021)	(60,869.00)
(4)	Equals City's Shortfall/(Prepaid) Contribution as of September 30, 2021	0.00
(5)	Required Contributions (Fiscal 2022)	60,869.00
(6)	Less Prepaid Contribution (Fiscal 2022)	0.00
(7)	Less Actual City Contributions (Fiscal 2022)	<u>(60,869.00)</u>
(8)	Equals City's Shortfall/(Prepaid) Contribution as of September 30, 2022	\$0.00



# HISTORY OF ASSET VALUES AND INVESTMENT RETURNS



STATISTICAL DATA

	<u>10/1/2022</u>	<u>10/1/2020</u>	<u>10/1/2018</u>	<u>10/1/2017</u>
<u>Service Retirees</u>				
Number	4	5	5	5
Average Current Age	73.9	73.9	71.9	70.9
Average Annual Benefit	\$34,303	\$30,855	\$30,855	\$30,855
<u>Beneficiaries</u>				
Number	3	2	2	2
Average Current Age	74.6	73.0	71.0	70.0
Average Annual Benefit	\$12,625	\$14,057	\$14,057	\$14,057

VALUATION PARTICIPANT RECONCILIATION

1. Active lives

a. Number in prior valuation 10/1/2020	0
b. Terminations	
i. Vested (partial or full) with deferred annuity	0
ii. Vested in refund of member contributions only	0
iii. Refund of member contributions or full lump sum distributio	0
c. Deaths	
i. Beneficiary receiving benefits	0
ii. No future benefits payable	0
d. Disabled	0
e. Retired	0
f. Continuing participants	0
g. New entrants / Rehires	0
h. Total active life participants in valuation	0

2. Non-Active lives (including beneficiaries receiving benefits)

	Service Retirees, Vested Receiving <u>Benefits</u>	Receiving Death <u>Benefits</u>	Receiving Disability <u>Benefits</u>	Vested (Deferred Annuity)	Vested (Due Refund)	<u>Total</u>
a. Number prior valuation	5	2	0	0	0	7
Retired	0	0	0	0	0	0
Vested (Deferred Annuity)	0	0	0	0	0	0
Vested (Due Refund)	0	0	0	0	0	0
Hired/Terminated in Same Year	0	0	0	0	0	0
Death, With Survivor	(1)	1	0	0	0	0
Death, No Survivor	0	0	0	0	0	0
Disabled	0	0	0	0	0	0
Refund of Contributions	0	0	0	0	0	0
Rehires	0	0	0	0	0	0
Expired Annuities	0	0	0	0	0	0
Data Corrections	0	0	0	0	0	0
b. Number current valuation	4	3	0	0	0	7

SUMMARY OF CURRENT PLAN  
(THROUGH ORDINANCE 1134)

<u>Effective Date Latest Amendment</u>	July 11, 2006
<u>Membership</u>	Active Members of this Plan shall include any Firefighter who was an active Member of the Predecessor Plan on the date the Predecessor Plan was terminated, including all Members receiving benefits on that termination date.
<u>Accrued Benefit</u>	Means a fraction of the benefit to which a participant would be entitled at their Normal Retirement Date. The numerator of the fraction is the years of participation completed to date and the denominator is the years of participation in the Plan that would have been earned if the Participant continued employment until their Normal Retirement Date.
<u>Credited Service</u>	Total number of years and fractional parts of years as a Participant during which the Participant made required contributions to the Plan, omitting intervening years or fractional parts of years when such Participant is not employed by the Employer.
<u>Salary</u>	Salary means the fixed monthly compensation for paid full-time firefighters.
<u>Average Final Compensation</u>	Average Salary for the highest 5 years during the 10 years immediately preceding retirement or termination.
<u>Member Contributions</u>	3.0% of Compensation.
<u>City Contributions</u>	Amount required after Member contributions in order to pay current costs and amortize unfunded past service cost over a period not to exceed 30 years.
<u>Normal Retirement</u>	
Date	Earlier of: 1) Age 55 and 10 years of Credited Service, or 2) Age 52 with 25 years of Credited Service.
Benefit	3% of Average Final Compensation times Years of Credited Service.
Form of Benefit	Ten Year Certain and Life Annuity

Early Retirement

Date	Age 50 and completion of 10 years of Credited Service.
Benefit	Determined as for Normal Retirement and reduced 3% for each year prior to Normal Retirement.

Vesting (Termination of Employment)

Less than 10 Years	Refund of Member Contributions.
10 Years or More	Accrued pension payable at Normal Retirement, or a refund of Member Contributions.

Disability

Eligibility	Total and permanent; not able to perform useful and efficient service as a Firefighter. Board can require periodic reexamination. 10 years of service required for non-service incurred benefits.
Benefit	
Service Connected	Greater of Accrued Benefit and 42% of Average Final Compensation.
Non-Service Connected	Greater of Accrued Benefit and 25% of Average Final Compensation.
Duration	Benefit payable for life with the first 10 years guaranteed, or until recovery (options available).

Pre-Retirement Death

Prior to Vesting	Refund of Member Contributions.
Vested	50% of the Member's monthly Salary at death, payable to the Beneficiary as a life annuity.

STATEMENT OF FIDUCIARY NET POSITION  
SEPTEMBER 30, 2022

<u>ASSETS</u>	MARKET VALUE
Cash and Cash Equivalents:	
Cash	33,127
Total Cash and Equivalents	33,127
Receivables:	
From Broker for Investments Sold	533
Investment Income	2,290
Total Receivable	2,823
Investments:	
U. S. Bonds and Bills	307,373
Federal Agency Guaranteed Securities	45,580
Corporate Bonds	181,902
Stocks	826,007
Total Investments	1,360,862
Total Assets	1,396,812
<u>LIABILITIES</u>	
Total Liabilities	0
NET POSITION RESTRICTED FOR PENSIONS	1,396,812

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION  
FOR THE YEAR ENDED SEPTEMBER 30, 2022  
Market Value Basis

ADDITIONS

## Contributions:

City	60,869	
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Total Contributions		60,869
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## Investment Income:

Net Increase in Fair Value of Investments	(302,259)	
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Interest & Dividends	28,010	
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Less Investment Expense <sup>1</sup>	(15,940)	
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Net Investment Income		(290,189)
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Total Additions		(229,320)
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DEDUCTIONS

## Distributions to Members:

Benefit Payments	176,506	
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Total Distributions		176,506
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Administrative Expense		7,986
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Total Deductions		184,492
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Net Increase in Net Position		(413,812)
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## NET POSITION RESTRICTED FOR PENSIONS

Beginning of the Year		1,810,624
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End of the Year		1,396,812
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<sup>1</sup>Investment related expenses include investment advisory, custodial and performance monitoring fees.

NOTES TO THE FINANCIAL STATEMENTS  
(For the Year Ended September 30, 2022)

*Plan Administration*

The Plan is a single-employer defined benefit pension plan. The general administration and responsibility for the proper operation of the Plan and for making effective the provisions of Ordinance 1274 are hereby vested in a Board of Trustees consisting of five (5) persons as follows:

1. Two (2) residents of the City, recommended by the Mayor and appointed by the City Council;
2. Two (2) active or retired Firefighters/plan members elected by a majority of the active and retired Firefighters who are members of this Plan; and
3. A fifth Trustee to be selected by the other four Trustees and appointed as a ministerial act by the City Council.

Active Members of this Plan shall include any Firefighter who was an active Member of the Predecessor Plan on the date the Predecessor Plan was terminated, including all Members receiving benefits on that termination date.

*Plan Membership as of October 1, 2020:*

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	7
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	-
Active Plan Members	-
	7
	7

*Benefits Provided*

The Plan provides retirement, termination, disability and death benefits.

A summary of the benefit provisions can be found in the October 1, 2020 Actuarial Valuation Report for the City of Live Oak Firefighters' Substitute Pension Trust Fund prepared by Foster & Foster Actuaries and Consultants.

*Contributions*

Member Contributions: 3.0% of Compensation.

City Contributions: Amount required after Member contributions in order to pay current costs and amortize unfunded past service cost over a period not to exceed 30 years

*Investment Policy:*

The following was the Board's adopted asset allocation policy as of September 30, 2022:

Asset Class	Target Allocation
Domestic Equity	55.00%
International Equity	10.00%
Fixed Income	35.00%
Total	100.00%

*Concentrations:*

The Plan did not hold investments in any one organization that represent 5 percent or more of the Pension Plan's Fiduciary Net Position.

*Rate of Return:*

For the year ended September 30, 2022, the annual money-weighted rate of return on Pension Plan investments, net of Pension Plan investment expense, was -16.58 percent.

The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.



NET PENSION LIABILITY OF THE SPONSOR

The components of the Net Pension Liability of the Sponsor on September 30, 2022 were as follows:

Total Pension Liability	\$ 1,879,493
Plan Fiduciary Net Position	<u>\$ (1,396,812)</u>
Sponsor's Net Pension Liability	<u>\$ 482,681</u>
Plan Fiduciary Net Position as a percentage of Total Pension Liability	74.32%

*Actuarial Assumptions:*

The Total Pension Liability was determined by an actuarial valuation as of October 1, 2020 updated to September 30, 2022 using the following actuarial assumptions:

Inflation	2.30%
Salary Increases	N/A
Discount Rate	6.75%
Investment Rate of Return	6.75%

*Mortality Rate Healthy Retiree:*

Female: PubS.H-2010 for Healthy Retirees, set forward one year.  
 Male: PubS.H-2010 (Below Median) for Healthy Retirees, set forward one year.

*Mortality Rate Beneficiary Lives:*

Female: PubG.H-2010 (Below Median) for Healthy Retirees.  
 Male: PubG.H-2010 (Below Median) for Healthy Retirees, set back one year.

All rates are projected generationally with Mortality Improvement Scale MP-2018. We feel this assumption sufficiently accommodates future mortality improvements.

The previously described mortality assumption rates were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumptions used in either of the two most recent valuations of the Florida Retirement System (FRS). The above rates are those outlined in Milliman’s July 1, 2019 FRS valuation report for special risk employees.

Since this is a retiree-only plan, the assumptions for withdrawal, retirement, disability, payroll growth, and salary increases are not applicable. Accordingly, no formal actuarial experience study has been performed for these assumptions.

The Long-Term Expected Rate of Return on Pension Plan investments can be 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 expenses and inflation) are developed for each major asset class.

For 2022 the inflation rate assumption of the investment advisor was 2.26%.

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.

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Best estimates of geometric real rates of return for each major asset class included in the Pension Plan's target asset allocation as of September 30, 2022 are summarized in the following table:

<u>Asset Class</u>	<u>Long Term Expected Real Rate of Return<sup>1</sup></u>
Domestic Equity	5.84%
International Equity	4.64%
Fixed Income	1.31%

<sup>1</sup> Source: Morgan Stanley. Secular annualized return and volatility estimates are based on a 20-year-plus time horizon.

Please note that long term expected return of the total portfolio is greater than simply multiplying each of the above "Long Term Expected Real Rate of Returns" by their target allocation % and adding them together. Not only is the time horizon longer for an actuarial valuation relative to the time horizon over which the above projected returns were generated, but also there is an additional correlation resulting from a diversified portfolio that will provide additional returns.

### *Discount Rate:*

The Discount Rate used to measure the Total Pension Liability was 6.75 percent.

The projection of cash flows used to determine the Discount Rate assumed that Plan Member contributions will be made at the current contribution rate and that Sponsor contributions will be made at rates equal to the difference between actuarially determined contribution rates and the Member 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.

	<u>1% Decrease</u>	<u>Current</u>	<u>1% Increase</u>
	<u>5.75%</u>	<u>Discount Rate</u>	<u>7.75%</u>
	<u>5.75%</u>	<u>6.75%</u>	<u>7.75%</u>
Sponsor's Net Pension Liability	\$ 640,415	\$ 482,681	\$ 345,940

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS  
Last 2 Fiscal Years

	<u>09/30/2022</u>	<u>09/30/2021</u>
Total Pension Liability		
Service Cost	-	-
Interest	124,424	124,432
Changes of benefit terms	-	-
Differences between Expected and Actual Experience	-	-
Changes of assumptions	-	-
Benefit Payments, including Refunds of Employee Contributions	<u>(176,506)</u>	<u>(176,284)</u>
Net Change in Total Pension Liability	(52,082)	(51,852)
Total Pension Liability - Beginning	<u>1,879,723</u>	<u>1,931,575</u>
Total Pension Liability - Ending (a)	<u>\$ 1,827,641</u>	<u>\$ 1,879,723</u>
Plan Fiduciary Net Position		
Contributions - Employer	60,869	60,869
Net Investment Income	(290,189)	320,993
Benefit Payments, including Refunds of Employee Contributions	(176,506)	(176,284)
Administrative Expense	<u>(7,986)</u>	<u>(14,579)</u>
Net Change in Plan Fiduciary Net Position	(413,812)	190,999
Plan Fiduciary Net Position - Beginning	<u>1,810,624</u>	<u>1,619,625</u>
Plan Fiduciary Net Position - Ending (b)	<u>\$ 1,396,812</u>	<u>\$ 1,810,624</u>
Net Pension Liability - Ending (a) - (b)	<u>\$ 430,829</u>	<u>\$ 69,099</u>
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	76.43%	96.32%
Covered Payroll	N/A	N/A
Net Pension Liability as a percentage of Covered Payroll	N/A	N/A

SCHEDULE OF CONTRIBUTIONS  
Last 2 Fiscal Years

Fiscal Year Ended	Actuarially Determined Contribution	Contributions in relation to the Actuarially Determined Contributions	Contribution Deficiency (Excess)	Covered Payroll	Contributions as a percentage of Covered Payroll
09/30/2022	\$ 60,869	\$ 60,869	\$ -	N/A	N/A
09/30/2021	\$ 60,869	\$ 60,869	\$ -	N/A	N/A

Notes to Schedule

Valuation Date: 10/01/2020

Actuarially determined contribution rates are calculated as of October 1, two years prior to the end of the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates can be found in the October 1, 2020 Actuarial Valuation for the City of Live Oak Firefighters' Substitute Pension Trust Fund prepared by Foster & Foster Actuaries and Consultants.

SCHEDULE OF INVESTMENT RETURNS  
Last 2 Fiscal Years

Fiscal Year Ended	Annual Money-Weighted Rate of Return Net of Investment Expense
09/30/2022	-16.58%
09/30/2021	20.54%

NOTES TO THE FINANCIAL STATEMENTS  
(For the Year Ended September 30, 2022)

*Plan Description*

The Plan is a single-employer defined benefit pension plan. The general administration and responsibility for the proper operation of the Plan and for making effective the provisions of Ordinance 1274 are hereby vested in a Board of Trustees consisting of five (5) persons as follows:

1. Two (2) residents of the City, recommended by the Mayor and appointed by the City Council;
  2. Two (2) active or retired Firefighters/plan members elected by a majority of the active and retired Firefighters who are members of this Plan; and
  3. A fifth Trustee to be selected by the other four Trustees and appointed as a ministerial act by the City Council.
- Active Members of this Plan shall include any Firefighter who was an active Member of the Predecessor Plan on the date the Predecessor Plan was terminated, including all Members receiving benefits on that termination date.

*Plan Membership as of October 1, 2020:*

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	7
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	-
Active Plan Members	-
	7
	7

*Benefits Provided*

The Plan provides retirement, termination, disability and death benefits.

A summary of the benefit provisions can be found in the October 1, 2020 Actuarial Valuation Report for the City of Live Oak Firefighters' Substitute Pension Trust Fund prepared by Foster & Foster Actuaries and Consultants.

*Contributions*

Member Contributions: 3.0% of Compensation.

City Contributions: Amount required after Member contributions in order to pay current costs and amortize unfunded past service cost over a period not to exceed 30 years

*Net Pension Liability*

The measurement date is September 30, 2022.

The measurement period for the pension expense was October 1, 2021 to September 30, 2022.

The reporting period is October 1, 2021 through September 30, 2022.

The Sponsor's Net Pension Liability was measured as of September 30, 2022.

The Total Pension Liability used to calculate the Net Pension Liability was determined as of that date.

*Actuarial Assumptions:*

The Total Pension Liability was determined by an actuarial valuation as of October 1, 2020 updated to September 30, 2022 using the following actuarial assumptions:

Inflation	2.30%
Salary Increases	N/A
Discount Rate	6.75%
Investment Rate of Return	6.75%

*Mortality Rate Healthy Retiree:*

Female: PubS.H-2010 for Healthy Retirees, set forward one year.  
 Male: PubS.H-2010 (Below Median) for Healthy Retirees, set forward one year.

*Mortality Rate Beneficiary Lives:*

Female: PubG.H-2010 (Below Median) for Healthy Retirees.  
 Male: PubG.H-2010 (Below Median) for Healthy Retirees, set back one year.

All rates are projected generationally with Mortality Improvement Scale MP-2018. We feel this assumption sufficiently accommodates future mortality improvements.

The previously described mortality assumption rates were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumptions used in either of the two most recent valuations of the Florida Retirement System (FRS). The above rates are those outlined in Milliman’s July 1, 2019 FRS valuation report for special risk employees.

Since this is a retiree-only plan, the assumptions for withdrawal, retirement, disability, payroll growth, and salary increases are not applicable. Accordingly, no formal actuarial experience study has been performed for these assumptions.

The Long-Term Expected Rate of Return on Pension Plan investments can be 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 expenses and inflation) are developed for each major asset class.

For 2022 the inflation rate assumption of the investment advisor was 2.26%. These ranges are combined to produce the Long-Term Expected Rate of Return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

Best estimates of geometric real rates of return for each major asset class included in the Pension Plan's target asset allocation as of September 30, 2022 are summarized in the following table:

Asset Class	Target Allocation	Long Term Expected Real Rate of Return <sup>1</sup>
Domestic Equity	55.00%	5.84%
International Equity	10.00%	4.64%
Fixed Income	35.00%	1.31%
Total	100.00%	

<sup>1</sup> Source: Morgan Stanley. Secular annualized return and volatility estimates are based on a 20-year-plus time horizon. Please note that long term expected return of the total portfolio is greater than simply multiplying each of the above “Long Term Expected Real Rate of Returns” by their target allocation % and adding them together. Not only is the time horizon longer for an actuarial valuation relative to the time horizon over which the above projected returns were generated, but also there is an additional correlation resulting from a diversified portfolio that will provide additional returns.

*Discount Rate:*

The Discount Rate used to measure the Total Pension Liability was 6.75 percent. The projection of cash flows used to determine the Discount Rate assumed that Plan Member contributions will be made at the current contribution rate and that Sponsor contributions will be made at rates equal to the difference between actuarially determined contribution rates and the Member 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.

CHANGES IN NET PENSION LIABILITY

	Increase (Decrease)		
	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability
	(a)	(b)	(a)-(b)
Balance at September 30, 2021	\$ 1,879,723	\$ 1,810,624	\$ 69,099
Changes for a Year:			
Service Cost	-	-	-
Interest	124,424	-	124,424
Differences between Expected and Actual Experience	-	-	-
Changes of assumptions	-	-	-
Changes of benefit terms	-	-	-
Contributions - Employer	-	60,869	(60,869)
Net Investment Income	-	(290,189)	290,189
Benefit Payments, including Refunds of Employee Contributions	(176,506)	(176,506)	-
Administrative Expense	-	(7,986)	7,986
Net Changes	(52,082)	(413,812)	361,730
Balance at September 30, 2022	\$ 1,827,641	\$ 1,396,812	\$ 430,829

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

	1% Decrease	Current Discount Rate	1% Increase
	5.75%	6.75%	7.75%
Sponsor's Net Pension Liability	\$ 640,415	\$ 430,829	\$ 345,940

*Pension Plan Fiduciary Net Position.*

Detailed information about the pension Plan's Fiduciary Net Position is available in a separately issued Plan financial report.



**PENSION EXPENSE AND DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED  
INFLOWS OF RESOURCES RELATED TO PENSIONS**

For the year ended September 30, 2022, the Sponsor will recognize a Pension Expense of \$66,111.

On September 30, 2022, the Sponsor reported Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between Expected and Actual Experience	-	-
Changes of assumptions	-	-
Net difference between Projected and Actual Earnings on Pension Plan investments	224,679	-
Total	\$ 224,679	\$ -

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

Year ended September 30:		
2023	\$	60,372
2024	\$	44,224
2025	\$	38,436
2026	\$	81,647
2027	\$	-
Thereafter	\$	-

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS  
Last 2 Fiscal Years

	<u>09/30/2022</u>	<u>09/30/2021</u>
Total Pension Liability		
Service Cost	-	-
Interest	124,424	124,432
Changes of benefit terms	-	-
Differences between Expected and Actual Experience	-	-
Changes of assumptions	-	-
Benefit Payments, including Refunds of Employee Contributions	<u>(176,506)</u>	<u>(176,284)</u>
Net Change in Total Pension Liability	(52,082)	(51,852)
Total Pension Liability - Beginning	1,879,723	1,931,575
Total Pension Liability - Ending (a)	<u>\$ 1,827,641</u>	<u>\$ 1,879,723</u>
Plan Fiduciary Net Position		
Contributions - Employer	60,869	60,869
Net Investment Income	(290,189)	320,993
Benefit Payments, including Refunds of Employee Contributions	(176,506)	(176,284)
Administrative Expense	<u>(7,986)</u>	<u>(14,579)</u>
Net Change in Plan Fiduciary Net Position	(413,812)	190,999
Plan Fiduciary Net Position - Beginning	1,810,624	1,619,625
Plan Fiduciary Net Position - Ending (b)	<u>\$ 1,396,812</u>	<u>\$ 1,810,624</u>
Net Pension Liability - Ending (a) - (b)	<u>\$ 430,829</u>	<u>\$ 69,099</u>
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	76.43%	96.32%
Covered Payroll	N/A	N/A
Net Pension Liability as a percentage of Covered Payroll	N/A	N/A

SCHEDULE OF CONTRIBUTIONS  
Last 2 Fiscal Years

Fiscal Year Ended	Actuarially Determined Contribution	Contributions in relation to the Actuarially Determined Contributions	Contribution Deficiency (Excess)	Covered Payroll	Contributions as a percentage of Covered Payroll
09/30/2022	\$ 60,869	\$ 60,869	\$ -	N/A	N/A
09/30/2021	\$ 60,869	\$ 60,869	\$ -	N/A	N/A

Notes to Schedule

Valuation Date: 10/01/2020

Actuarially determined contribution rates are calculated as of October 1, two years prior to the end of the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates can be found in the October 1, 2020 Actuarial Valuation for the City of Live Oak Firefighters' Substitute Pension Trust Fund prepared by Foster & Foster Actuaries and Consultants.

EXPENSE DEVELOPMENT AND AMORTIZATION SCHEDULES

**The following information is not required to be disclosed but is provided for informational purposes.**

**COMPONENTS OF PENSION EXPENSE**  
FISCAL YEAR SEPTEMBER 30, 2022

	Net Pension Liability	Deferred Inflows	Deferred Outflows	Pension Expense
Beginning balance	\$ 69,099	\$ 181,469	\$ 49,660	\$ -
Total Pension Liability Factors:				
Service Cost	-	-	-	-
Interest	124,424	-	-	124,424
Changes in benefit terms	-	-	-	-
Differences between Expected and Actual Experience with regard to economic or demographic assumptions	-	-	-	-
Current year amortization of experience difference	-	-	-	-
Change in assumptions about future economic or demographic factors or other inputs	-	-	-	-
Current year amortization of change in assumptions	-	-	-	-
Benefit Payments, including Refunds of Employee Contributions	(176,506)	-	-	-
Net change	<u>(52,082)</u>	<u>-</u>	<u>-</u>	<u>124,424</u>
Plan Fiduciary Net Position:				
Contributions - Employer	60,869	-	-	-
Projected Net Investment Income	118,045	-	-	(118,045)
Difference between projected and actual earnings on Pension Plan investments	(408,234)	-	408,234	-
Current year amortization	-	(51,836)	(103,582)	51,746
Benefit Payments, including Refunds of Employee Contributions	(176,506)	-	-	-
Administrative Expenses	(7,986)	-	-	7,986
Net change	<u>(413,812)</u>	<u>(51,836)</u>	<u>304,652</u>	<u>(58,313)</u>
Ending Balance	<u>\$ 430,829</u>	<u>\$ 129,633</u>	<u>\$ 354,312</u>	<u>\$ 66,111</u>

AMORTIZATION SCHEDULE - INVESTMENTS

Increase (Decrease) in Pension Expense Arising from the Recognition of the of Differences Between Projected and Actual Earnings on Pension Plan Investments

Plan Year Ending	Differences Between Projected and Actual Earnings	Recognition Period (Years)	2022	2023	2024	2025	2026	2027	2028	2029	2030
2022	\$ 408,234	5	\$ 81,646	\$ 81,647	\$ 81,647	\$ 81,647	\$ 81,647	\$ -	\$ -	\$ -	\$ -
2021	\$ (216,056)	5	\$ (43,211)	\$ (43,211)	\$ (43,211)	\$ (43,211)	\$ -	\$ -	\$ -	\$ -	\$ -
2020	\$ 28,938	5	\$ 5,788	\$ 5,788	\$ 5,788	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2019	\$ 80,740	5	\$ 16,148	\$ 16,148	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2018	\$ (43,123)	5	\$ (8,625)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Increase (Decrease) in Pension Expense			\$ 51,746	\$ 60,372	\$ 44,224	\$ 38,436	\$ 81,647	\$ -	\$ -	\$ -	\$ -