BONITA SPRINGS FIRE CONTROL AND RESCUE DISTRICT GENERAL EMPLOYEES' RETIREMENT SYSTEM

ACTUARIAL VALUATION AS OCTOBER 1, 2018

CONTRIBUTIONS APPLICABLE TO THE PLAN/FISCAL YEAR ENDING SEPTEMBER 30, 2020

GASB 67/68 DISCLOSURE INFORMATION AS OF SEPTEMBER 30, 2018





November 20, 2018

Board of Trustees Bonita Springs Fire Control & Rescue District 27490 Old 41 Road Bonita Springs, FL 34135

Re: Bonita Springs Fire Control and Rescue District General Employees' Retirement System

Dear Board:

We are pleased to present to the Board this report of the annual actuarial valuation of the Bonita Springs Fire Control and Rescue District General Employees' Retirement System. 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 Chapter 112, 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 valuation, 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 Bonita Springs Fire Control and Rescue District, 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 the valuation date.

The undersigned is familiar with the immediate and long-term aspects of pension valuations, and meets

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 Bonita Springs Fire Control and Rescue District,

nor does anyone at Foster & Foster, Inc. act as a member of the Board of Trustees of the General

Employees' Retirement System. 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 me at 239-433-5500.

Respectfully submitted,

Foster & Foster, Inc.

By:

Christine M. O'Neal, FSA, EA, MAAA

Enrolled Actuary #17-7916

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Enclosures

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SUMMARY OF REPORT

The regular annual actuarial valuation of the Bonita Springs Fire Control and Rescue District General Employees' Retirement System, performed as of October 1, 2018, 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, 2020.

The contribution requirements, compared with those set forth in the October 1, 2016 actuarial valuation report, are as follows:

Valuation Date Applicable to Fiscal Year Ending	10/1/2018 9/30/2020	10/1/2016 9/30/2018
Minimum Required Contribution % of Projected Annual Payroll	32.1%	26.9%
Member Contributions (Est.) % of Projected Annual Payroll	7.0%	7.0%
District Required Contribution ² % of Projected Annual Payroll	25.1%	19.9%

¹ Please note that the District has access to a prepaid contribution of \$7,161.48 that is available to offset a portion of the above stated requirements for the fiscal year ending September 30, 2019. The District is required by Resolution to contribute a minimum of 15.0% of Members' Salaries.

As you can see, the Minimum Required Contribution has increased since the prior valuation. The increase is attributable to net unfavorable experience realized by the plan during the past two years, as well as a change of actuarial assumptions. The increase was offset in part by a decline in the plan's Normal Cost associated with a change in active demographics as well as a decrease in assumed administrative expenses.

Plan experience was unfavorable overall on the basis of the plan's actuarial assumptions. Sources of unfavorable experience included average salary increases of 11.56% in 2017 and 6.74% in 2018 which exceeded the assumptions for those years, unfavorable retirement experience, and investment returns of 6.89% in 2017 and 6.26% in 2018 (Actuarial Asset Basis) which both fell short of the 7.80% assumption. These losses were offset in part by a gain associated with more turnover for Members not eligible for retirement than expected.

The balance of this Report presents additional details of the actuarial valuation and the general operation of the Fund. The undersigned would be pleased to meet with the Board of Trustees in order to discuss the Report and any pending questions concerning its contents.

Respectfully submitted,

FOSTER & FOSTER, INC.

Christine M. O'Neal, FSA, EA, MAAA

Enrolled Actuary #17-7916

By: Tyler A. Koftan

CHANGES SINCE PRIOR VALUATION

Plan Changes

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

Actuarial Assumption/Method Changes

Since the prior valuation, the following assumptions were changed:

- The investment return assumption was reduced from 7.8% to 7.6% per year, net of investment-related expenses.
- As required by State law, the mortality rates were changed to be the same as used for the Florida Retirement System (FRS) in the July 1, 2016 actuarial valuation report for non-special risk lives.

CONTRIBUTION IMPACT OF ANNUAL CHANGES

(1) Contribution Determined as of October 1, 2016	19.9%
(2) Summary of Contribution Impact by component:	
Change in Normal Cost Rate	-0.5%
Change in Administrative Expense Percentage	-0.7%
Payroll Change Effect on UAAL Amortization	0.3%
Investment Return (Actuarial Asset Basis)	1.4%
Salary Increases	1.9%
Active Decrements	0.6%
Inactive Mortality	0.4%
Assumption Change	2.4%
Other	<u>-0.6%</u>
Total Change in Contribution	5.2%
(3) Contribution Determined as of October 1, 2018	25.1%

COMPARATIVE SUMMARY OF PRINCIPAL VALUATION RESULTS

	New Assump 10/1/2018	Old Assump 10/1/2018	<u>10/1/2016</u>
A. Participant Data			
Actives	11	11	13
Service Retirees	9	9	7
DROP Retirees	0	0	0
Beneficiaries	0	0	0
Disability Retirees	1	1	1
Terminated Vested	<u>2</u>	<u>2</u>	<u>0</u>
Total	23	23	21
Total Annual Payroll	\$686,609	\$686,609	\$737,428
Payroll Under Assumed Ret. Age	573,342	573,342	587,699
Annual Rate of Payments to:			
Service Retirees	147,997	147,997	110,424
DROP Retirees	0	0	0
Beneficiaries	0	0	0
Disability Retirees	27,643	27,643	27,643
Terminated Vested	6,771	6,771	6,771
B. Assets			
Actuarial Value (AVA) 1	3,316,379	3,316,379	2,924,349
Market Value (MVA) ¹	3,511,424	3,511,424	2,908,958
C. Liabilities			
Present Value of Benefits Actives			
Retirement Benefits	2,402,748	2,311,757	2,154,390
Disability Benefits	38,414	37,053	34,534
Death Benefits	8,803	14,199	13,054
Vested Benefits	128,724	123,216	148,809
Refund of Contributions	10,944	10,889	20,714
Service Retirees	1,703,512	1,674,109	1,322,768
DROP Retirees	0	0	0
Beneficiaries	0	0	0
Disability Retirees	280,091	275,674	284,731
Terminated Vested	<u>32,669</u>	<u>32,669</u>	<u>0</u>
Total	4,605,905	4,479,566	3,979,000

C. Liabilities - (Continued)	New Assump <u>10/1/2018</u>	Old Assump <u>10/1/2018</u>	10/1/2016
Present Value of Future Salaries	3,677,452	3,626,839	3,994,469
Present Value of Future			
Member Contributions	257,422	253,879	279,613
Normal Cost (Retirement)	88,127	83,512	82,205
Normal Cost (Disability)	2,655	2,560	2,461
Normal Cost (Death)	553	933	889
Normal Cost (Vesting)	3,604	3,404	8,530
Normal Cost (Refunds)	<u>2,238</u>	<u>2,234</u>	<u>4,015</u>
Total Normal Cost	97,177	92,643	98,100
Present Value of Future			
Normal Costs	627,042	589,168	653,629
Accrued Liability (Retirement)	1,830,673	1,777,342	1,635,135
Accrued Liability (Disability)	20,447	19,993	19,120
Accrued Liability (Death)	5,255	8,294	7,398
Accrued Liability (Vesting)	103,948	100,046	50,239
Accrued Liability (Refunds)	2,268	2,271	5,980
Accrued Liability (Inactives)	2,016,272	1,982,452	1,607,499
Total Actuarial Accrued Liability (EAN AL)	3,978,863	3,890,398	3,325,371
Unfunded Actuarial Accrued			
Liability (UAAL)	662,484	574,019	401,022
Funded Ratio (AVA / EAN AL)	83.3%	85.2%	87.9%

D. Actuarial Present Value of Accrued Benefits	New Assump <u>10/1/2018</u>	Old Assump <u>10/1/2018</u>	<u>10/1/2016</u>
Vested Accrued Benefits			
Inactives	2,016,272	1,982,452	1,607,499
Actives	823,673	792,994	764,748
Member Contributions	402,097	402,097	445,789
Total	3,242,042	3,177,543	2,818,036
Non-vested Accrued Benefits	<u>175,137</u>	<u>168,266</u>	79,922
Total Present Value			
Accrued Benefits (PVAB)	3,417,179	3,345,809	2,897,958
Funded Ratio (MVA / PVAB)	102.8%	104.9%	100.4%
Increase (Decrease) in Present Value of			
Accrued Benefits Attributable to:			
Plan Amendments	0	0	
Assumption Changes	71,370	0	
New Accrued Benefits	0	622,956	
Benefits Paid	0	(386,088)	
Interest	0	210,983	
Other	<u>0</u>	<u>0</u>	
Total	71,370	447,851	

Valuation Date Applicable to Fiscal Year Ending	New Assump 10/1/2018 9/30/2020	Old Assump 10/1/2018 9/30/2020	10/1/2016 9/30/2018
E. Pension Cost			
Normal Cost (with interest)			
% of Total Annual Payroll ²	17.6	16.8	17.3
Administrative Expenses (with interest) % of Total Annual Payroll ²	2.3	2.3	3.0
Payment Required to Amortize Unfunded Actuarial Accrued Liability over 18 years			
(as of 10/1/2018, with interest)			
% of Total Annual Payroll ²	12.2	10.6	6.6
Minimum Required Contribution			
% of Total Annual Payroll ²	32.1	29.7	26.9
Expected Member Contributions			
% of Total Annual Payroll ²	7.0	7.0	7.0
Expected District Contribution % of Total Annual Payroll ²	25.1	22.7	19.9
F. Past Contributions			
Plan Years Ending:	9/30/2018	9/30/2017	
Total Required Contribution District Requirement	214,051 158,350	\$197,600 144,806	
Actual Contributions Made:			
Members (excluding buyback)	55,701	52,794	
District Total	158,350 214,051	<u>144,807</u> 197,601	
G. Net Actuarial (Gain)/Loss	279,953	,	

 $^{^1\,}$ Contributions developed as of 10/1/2018 are expressed as a percentage of total annual payroll at 10/1/2018 of \$573,342.

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

	Projected Unfunded
Year	Actuarial Accrued Liability
2018	662,484
2019	640,324
2020	616,480
2024	501,553
2028	347,501
2032	141,000
2036	0

I. (i) 5 Year Comparison of Actual and Assumed Salary Increases

		<u>Actual</u>	Assumed
Year Ended	9/30/2018	6.74%	6.41%
Year Ended	9/30/2017	11.56%	6.27%
Year Ended	9/30/2016	11.75%	6.00%
Year Ended	9/30/2015	10.00%	6.00%
Year Ended	9/30/2014	4.98%	6.00%

(ii) 5 Year Comparison of Investment Return on Market Value and Actuarial Value

		Market Value	Actuarial Value	<u>Assumed</u>
Year Ended	9/30/2018	7.58%	6.26%	7.80%
Year Ended	9/30/2017	11.85%	6.89%	7.80%
Year Ended	9/30/2016	6.45%	6.53%	8.00%
Year Ended	9/30/2015	-0.47%	8.73%	8.00%
Year Ended	9/30/2014	8.31%	8.31%	8.00%

(iii) Average Annual Payroll Growth

(a) Payroll as of:	10/1/2018 10/1/2008	\$686,609 860,996
(b) Total Increase		-20.25%
(c) Number of Years		10.00
(d) Average Annual Rate		-2.24%

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.

Christine M. O'Neal, EA, FSA, MAAA Enrolled Actuary #17-7916

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

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

RECONCILIATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES

(1)	Unfunded Actuarial Accrued Liability as of October 1, 2016				\$401,022	
(2)	Sponsor Normal Cost developed as of October 1, 2016				56,961	
(3)	Expected administr	rative expenses for	the year ended Septem	ber 30, 2017	16,781	
(4)	Expected interest of	on (1), (2) and (3)			36,377	
(5)	Sponsor contribution	ons to the System	during the year ended So	eptember 30, 2017	144,807	
(6)	Expected interest of	on (5)			5,647	
(7)	Expected Unfunde September 30, 201		•		360,686	
(8)	Sponsor Normal C	ost developed as o	f October 1, 2017		48,550	
(9)	Expected administr	rative expenses for	r the year ended Septem	ber 30, 2018	16,781	
(10)	(10) Expected interest on (7), (8) and (9)				32,575	
(11)	(11) Sponsor contributions to the System during the year ended September 30, 2018				158,350	
(12)	(12) Expected interest on (11)				6,176	
(13)	(13) Expected Unfunded Actuarial Accrued Liability as of September 30, 2018 (7)+(8)+(9)+(10)-(11)-(12)				294,066	
(14)	Change to UAAL	due to Assumption	Change		88,465	
(15)	Change to UAAL	due to Actuarial (C	Gain)/Loss		279,953	
(16)	(16) Unfunded Actuarial Accrued Liability as of October 1, 2018				662,484	
	Type of	Date Established	Years	10/1/2018	Amortization	
	<u>Base</u>	<u>Established</u>	Remaining	<u>Amount</u>	Amount	
	Initial Base	10/1/2016	18	294,066	28,357	
	Actuarial Loss	10/1/2018	15	279,953	29,658 <u>9,372</u>	
	Assump Change	Assump Change 10/1/2018 15 <u>88,465</u>				

67,387

662,484

DETAILED ACTUARIAL (GAIN)/LOSS ANALYSIS

(1) Unfunded Actuarial Accrued Liability (UAAL) as of October 1, 2016	\$401,022
(2) Expected UAAL as of October 1, 2018	294,066
(3) Summary of Actuarial (Gain)/Loss, by component:	
Investment Return (Actuarial Asset Basis)	73,878
Salary Increases	98,758
Active Decrements	29,888
Inactive Mortality	20,027
Other	<u>57,402</u>
Increase in UAAL due to (Gain)/Loss	279,953
Assumption Changes	<u>88,465</u>
(4) Actual UAAL as of October 1, 2018	\$662,484

ACTUARIAL ASSUMPTIONS AND METHODS

Mortality Rate

Healthy Active Lives:

Female: RP2000 Generational, 100% White Collar, Scale BB

Male: RP2000 Generational, 50% White Collar / 50%

Blue Collar, Scale BB

Healthy Inactive Lives:

Female: RP2000 Generational, 100% Annuitant White

Collar, Scale BB

Male: RP2000 Generational, 50% Annuitant White Collar / 50% Annuitant Blue Collar, Scale BB

Disabled Lives:

Female: 100% RP2000 Disabled Female set forward

two years

Male: 100% RP2000 Disabled Male setback four years

The assumed rates of mortality are mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumption used in either of the two most recent valuations of the Florida Retirement System (FRS). The above rates are those outlined in the July 1, 2016 FRS actuarial valuation report for non-special risk lives. We feel this assumption sufficiently accommodates future mortality improvements.

Previously, the mortality rates were based on those used in the July 1, 2015 FRS valuation report for non-special risk lives.

Interest Rate

7.60% (prior year 7.80%) per year compounded annually, net of investment related expenses. This is supported by the target asset allocation of the trust and the expected long-term return by asset class.

Salary Increases

Service	Increase
<1	10.0%
1-4	7.5%
5+	5.5%

This is based on the experience study dated August 2, 2016.

Payroll Growth

0.00%. This assumption cannot exceed the ten-year average payroll growth, in compliance with Part VII of Chapter 112, Florida Statutes.

Administrative Expenses

\$12,933 annually, based on actual expenses incurred in the prior fiscal year.

Retirement Age

Age	Retirement Rate
50	25.0%
51-54	5.0%
55	25.0%
56-59	50.0%
60	50.0%
61-64	50.0%
65+	100.0%

This is based on the experience study dated August 2, 2016.

Disability Rate

Table (1202), sample rates below.

Age	Disability Rate
20	0.05%
30	0.06%
40	0.12%
50	0.43%

Termination Rate

Table 1305 for service <7 and half of table 1305 for service after 7 years. See table below for sample rates.

Service	Age	Termination Rate
<7	<30	16.2%
	30-34	15.0%
	35-39	9.8%
	40-44	7.3%
	45+	0.8%
7+	< 30	7.6%
	30-34	7.5%
	35-39	5.0%
	40-44	3.4%
	45+	1.9%

This is based on the experience study dated August 2, 2016.

Actuarial Cost Method

Entry Age Normal Cost Method

Asset Valuation Method

Each year, the prior Actuarial Value of Assets is brought forward utilizing the historical geometric 4-year average Market Value return. It is possible that over time this technique will produce an insignificant bias above or below Market Value.

GLOSSARY

<u>Total Annual Payroll</u> is the projected annual rate of pay for the year following the valuation date of all covered Members.

<u>Present Value of Benefits</u> is the single sum value on the valuation date of all future benefits to be paid to current Members, Retirees, Beneficiaries, Disability Retirees and Vested Terminations.

Normal (Current Year's) Cost is the current year's cost for benefits yet to be funded.

<u>Unfunded Actuarial Accrued Liability (UAAL)</u> is a liability which arises when a pension plan is initially established or improved and such establishment or improvement is applicable to all years of past service. Under the Entry Age Normal Actuarial Cost Method, there is also a new UAAL created each year equal to the actuarial gain or loss for that year.

<u>Total Required Contribution</u> is equal to the Normal Cost plus an amount sufficient to amortize the Unfunded Accrued Liability over no more than 30 years. The required amount is adjusted for interest according to the timing of contributions during the year.

<u>Entry Age Normal Cost Method</u> - Under this method, the normal cost is the sum of the individual normal costs for all active participants. For an active participant, the normal cost is the participant's normal cost accrual rate, multiplied by the participant's current compensation.

- (a) The normal cost accrual rate equals:
 - (i) the present value of future benefits for the participant, determined as of the participant's entry age, divided by
 - (ii) the present value of the compensation expected to be paid to the participant for each year of the participant's anticipated future service, determined as of the participant's entry age.
- (b) In calculating the present value of future compensation, the salary scale is applied both retrospectively and prospectively to estimate compensation in years prior to and subsequent to the valuation year based on the compensation used for the valuation.
- (c) The accrued liability is the sum of the individual accrued liabilities for all participants and beneficiaries. A participant's accrued liability equals the present value, at the participant's

attained age, of future benefits less the present value at the participant's attained age of the individual normal costs payable in the future. A beneficiary's accrued liability equals the present value, at the beneficiary's attained age, of future benefits. The unfunded accrued liability equals the total accrued liability less the actuarial value of assets.

(d) Under this method, the entry age used for each active participant is the participant's age at the time he or she would have commenced participation if the plan had always been in existence under current terms, or the age as of which he or she first earns service credits for purposes of benefit accrual under the current terms of the plan.

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2017

<u>ASSETS</u>	COST VALUE	MARKET VALUE
Cash and Cash Equivalents: Money Market	30,855.05	30,855.05
Total Cash and Equivalents	30,855.05	30,855.05
Investments:		
Fixed Income	1,149,132.69	1,155,613.51
Equities	1,839,608.55	2,093,648.12
Total Investments	2,988,741.24	3,249,261.63
Total Assets	3,019,596.29	3,280,116.68
<u>LIABILITIES</u>		
Total Liabilities	0.00	0.00
NET POSITION RESTRICTED FOR PENSIONS	3,019,596.29	3,280,116.68

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2017 Market Value Basis

ADDITIONS

Con		

Member 52,793.85 District 144,807.13

Total Contributions 197,600.98

Investment Income:

Net Realized Gain (Loss) 102,905.87 Unrealized Gain (Loss) 194,344.83

Net Increase in Fair Value of Investments 297,250.70
Interest & Dividends 74,046.09
Less Investment Expense¹ (18,000.00)

Net Investment Income 353,296.79

Total Additions 550,897.77

DEDUCTIONS

Distributions to Members:

Benefit Payments147,844.83Lump Sum DROP Distributions0.00Lump Sum PLOP Distributions13,109.27Refunds of Member Contributions0.00

Total Distributions 160,954.10

Administrative Expense 18,785.10

Total Deductions 179,739.20

Net Increase in Net Position 371,158.57

NET POSITION RESTRICTED FOR PENSIONS

Beginning of the Year 2,908,958.11

End of the Year 3,280,116.68

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

ACTUARIAL ASSET VALUATION SEPTEMBER 30, 2017

Actuarial Assets for funding purposes are developed by increasing the Actuarial Assets used in the most recent actuarial valuation of the Fund by the average annual market value rate of return (net of investment related expenses) for the past four years. Actuarial Assets shall not be less than 80% nor greater than 120% of Market Value of Assets.

Details of the derivation are set forth as follows:

Plan Year End	Rate of Return ¹		
09/30/2014	10.16%		
09/30/2015	-0.47%		
09/30/2016	6.45%		
09/30/2017	11.85%		
Annualized Rate of Return for prior four (4) years	:	6.89%	
(A) 10/01/2016 Actuarial Assets:			\$2,924,348.74
(I) Net Investment Income:			
 Interest and Dividends Realized Gains (Losses) Change in Actuarial Value Investment Related Expenses 	otal	74,046.09 102,905.87 43,171.36 (18,000.00)	202,123.32
(B) 10/01/2017 Actuarial Assets:			\$3,144,333.84
Actuarial Asset Rate of Return = 2I/(A+B-I):			6.89%
10/01/2017 Limited Actuarial A	ssets:		\$3,144,333.84
10/01/2017 Market Value of As	sets:		\$3,280,116.68
Actuarial Gain/(Loss) due to Investment Return (A	Actuarial Asset Basis)		(\$26,695.53)

¹Market Value Basis, net of investment related expenses.

CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS SEPTEMBER 30, 2017 Actuarial Asset Basis

REVENUES

	REVENUES	
Contributions: Member District	52,793.85 144,807.13	
Total Contributions		197,600.98
Earnings from Investments: Interest & Dividends Net Realized Gain (Loss) Change in Actuarial Value	74,046.09 102,905.87 43,171.36	
Total Earnings and Investment Gains		220,123.32
	EXPENDITURES	
Distributions to Members: Benefit Payments Lump Sum DROP Distributions Lump Sum PLOP Distributions Refunds of Member Contributions	147,844.83 0.00 13,109.27 0.00	
Total Distributions		160,954.10
Expenses: Investment related ¹ Administrative	18,000.00 18,785.10	
Total Expenses		36,785.10
Change in Net Assets for the Year		219,985.10
Net Assets Beginning of the Year		2,924,348.74

Net Assets End of the Year²

3,144,333.84

¹Investment related expenses include investment advisory, custodial and performance monitoring fees. ²Net Assets may be limited for actuarial consideration.

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2018

<u>ASSETS</u>	COST VALUE	MARKET VALUE
Cash and Cash Equivalents: Money Market	190,673.82	190,673.82
Total Cash and Equivalents	190,673.82	190,673.82
Receivables: Member Contributions in Transit District Contributions in Transit	2,171.23 6,451.64	2,171.23 6,451.64
Total Receivable	8,622.87	8,622.87
Investments: Fixed Income Equities Total Investments	1,184,281.99 1,921,681.93 3,105,963.92	1,143,705.19 2,373,423.02 3,517,128.21
Total Assets	3,305,260.61	3,716,424.90
LIABILITIES Payables: To Firefighters' Trust Fund Prepaid District Contribution	197,839.80 7,161.48	197,839.80 7,161.48
Total Liabilities	205,001.28	205,001.28
NET POSITION RESTRICTED FOR PENSIONS	3,100,259.33	3,511,423.62

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2018 Market Value Basis

ADI	DIT	IONS
110		10110

<u>ADDITIONS</u>		
Contributions:		
Member	55,70	
District	158,350	0.36
Total Contributions		214,051.49
Investment Income:		
Unrealized Gain (Loss)	150,643.90	
Net Increase in Fair Value of Investments	150,64	3 90
Interest & Dividends	118,55	
Less Investment Expense ¹	(13,87	
Less investment Expense	(13,67)	3.00)
Net Investment Income		255,322.32
Total Additions		469,373.81
DEDUCTIONS Distributions to Members: Benefit Payments Lump Sum DROP Distributions Lump Sum PLOP Distributions Refunds of Member Contributions	67,86	0.00
Total Distributions		225,133.84
Administrative Expense		12,933.03
Total Deductions		238,066.87
Net Increase in Net Position		231,306.94
NET POSITION RESTRICTED FOR PENSIONS Beginning of the Year		3,280,116.68
End of the Year		3,511,423.62

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

ACTUARIAL ASSET VALUATION SEPTEMBER 30, 2018

Actuarial Assets for funding purposes are developed by increasing the Actuarial Assets used in the most recent actuarial valuation of the Fund by the average annual market value rate of return (net of investment related expenses) for the past four years. Actuarial Assets shall not be less than 80% nor greater than 120% of Market Value of Assets.

Details of the derivation are set forth as follows:

Plan Year End	Rate of Return ¹		
09/30/2015	-0.47%		
09/30/2016	6.45%		
09/30/2017	11.85%		
09/30/2018	7.58%		
Annualized Rate of Return for prior four (4) years	:	6.26%	
(A) 10/01/2017 Actuarial Assets:			\$3,144,333.84
(I) Net Investment Income:			
 Interest and Dividends Realized Gains (Losses) Change in Actuarial Value Investment Related Expenses 		118,553.42 0.00 91,382.11 (13,875.00)	
Total			196,060.53
(B) 10/01/2018 Actuarial Assets:			\$3,316,378.99
Actuarial Asset Rate of Return = 2I/(A+B-I):	6.26%		
10/01/2018 Limited Actuarial Assets:			\$3,316,378.99
10/01/2018 Market Value of Assets:			\$3,511,423.62
Actuarial Gain/(Loss) due to Investment Return (Actuarial Asset Basis)			(\$45,100.19)

¹Market Value Basis, net of investment related expenses.

CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS SEPTEMBER 30, 2018 Actuarial Asset Basis

	REVENUES	
Contributions: Member District	55,701.13 158,350.36	
Total Contributions		214,051.49
Earnings from Investments: Interest & Dividends Change in Actuarial Value	118,553.42 91,382.11	
Total Earnings and Investment Gains		209,935.53
EXI	PENDITURES	
Distributions to Members: Benefit Payments Lump Sum DROP Distributions Lump Sum PLOP Distributions Refunds of Member Contributions	157,272.99 0.00 67,860.85 0.00	
Total Distributions		225,133.84
Expenses: Investment related ¹ Administrative	13,875.00 12,933.03	
Total Expenses		26,808.03
Change in Net Assets for the Year		172,045.15
Net Assets Beginning of the Year		3,144,333.84

Net Assets End of the Year²

3,316,378.99

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

²Net Assets may be limited for actuarial consideration.

RECONCILIATION OF DISTRICT'S SHORTFALL/(PREPAID) CONTRIBUTION FOR THE FISCAL YEAR ENDED (FYE) SEPTEMBER 30, 2018

(1)	Total Required Contribution Rate (Fiscal 2017)	26.2%
(2)	2017 Pensionable Payroll Derived from Member Contributions	\$754,197.86
(3)	Total Fiscal 2017 Required Contribution (1) x (2)	197,599.84
(4)	Less Actual 2017 Member Contributions	(52,793.85)
(5)	Equals Required District Contribution for Fiscal 2017	144,805.99
(6)	Less Prepaid Contribution	0.00
(7)	Less Actual 2017 District Contributions	(144,807.13)
(8)	Equals District's Shortfall/(Prepaid) Contribution as of September 30, 2017 ¹	(\$1.14)
(9)	Total Required Contribution Rate (Fiscal 2018)	26.9%
(10)	2018 Pensionable Payroll Derived from Member Contributions	\$795,730.43
(11)	Total Fiscal 2018 Required Contribution (9) x (10)	214,051.49
(12)	Less Actual 2018 Member Contributions	(55,701.13)
(13)	Equals Required District Contribution for Fiscal 2018	158,350.36
(14)	Less Prepaid Contribution	0.00
(15)	Less Actual 2018 District Contributions	(165,511.84)
(16)	Equals District's Shortfall/(Prepaid) Contribution as of September 30, 2018	(\$7,161.48)

¹ The prepaid contribution for fiscal 2017 was waived due to being small in magnitude.

STATISTICAL DATA

	10/1/2011	10/1/2014	10/1/2016	10/1/2018
Actives				
Number	13	11	13	11
Average Current Age	48.3	47.0	47.0	48.5
Average Age at Employment	39.9	37.8	38.0	39.3
Average Past Service	8.4	9.2	9.0	9.2
Average Annual Salary	\$54,089	\$58,553	\$56,725	\$62,419
Service Retirees				
Number	5	6	7	9
Average Current Age	N/A	63.2	65.0	66.5
Average Annual Benefit	\$12,344	\$12,533	\$15,775	\$16,444
DROP Retirees				
Number	0	1	0	0
Average Current Age	N/A	61.9	N/A	N/A
Average Annual Benefit	N/A	\$31,710	N/A	N/A
<u>Beneficiaries</u>				
Number	0	0	0	0
Average Current Age	N/A	N/A	N/A	N/A
Average Annual Benefit	N/A	N/A	N/A	N/A
Disability Retirees				
Number	0	1	1	1
Average Current Age	N/A	47.1	49.1	51.1
Average Annual Benefit	N/A	\$27,643	\$27,643	\$27,643
Terminated Vested				
Number	0	0	0	2
Average Current Age ¹	N/A	N/A	N/A	N/A
Average Annual Benefit 1	N/A	N/A	N/A	N/A

¹ The Average Annual Benefit and Average Current Age exclude participants awaiting a refund of contributions.

AGE AND SERVICE DISTRIBUTION

PAST SERVICE

AGE	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30+	Total
15 - 19	0	0	0	0	0	0	0	0	0	0	0	0
20 - 24	0	0	0	0	0	0	0	0	0	0	0	0
25 - 29	0	0	0	0	0	0	0	0	0	0	0	0
30 - 34	0	0	0	0	0	0	1	0	0	0	0	1
35 - 39	0	1	0	1	0	0	1	0	0	0	0	3
40 - 44	0	0	0	0	0	0	0	0	0	0	0	0
45 - 49	0	0	0	1	0	0	1	0	1	0	0	3
50 - 54	0	1	0	0	0	0	1	0	0	0	0	2
55 - 59	0	0	0	0	0	0	1	0	0	0	0	1
60 - 64	0	0	0	0	0	0	0	0	0	0	0	0
65+	0	0	0	0	0	0	1	0	0	0	0	1
Total	0	2	0	2	0	0	6	0	1	0	0	11

VALUATION PARTICIPANT RECONCILIATION

1. Active lives

a. Number in prior valuation 10/1/2016	13
b. Terminations	
i. Vested (partial or full) with deferred benefits	(2)
ii. Non-vested or full lump sum distribution received	0
c. Deaths	
i. Beneficiary receiving benefits	0
ii. No future benefits payable	0
d. Disabled	0
e. Retired	(2)
f. DROP	<u>0</u>
g. Continuing participants	9
h. New entrants	<u>2</u>
i. Total active life participants in valuation	11

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

	Service Retirees, Vested Receiving Benefits	DROP Benefits	Receiving Death Benefits	Receiving Disability Benefits	Vested <u>Deferred</u>	<u>Total</u>
a. Number prior valuation	7	0	0	1	0	8
Retired	2	0	0	0	0	2
DROP	0	0	0	0	0	0
Vested Deferred	0	0	0	0	2	2
Death, With Survivor	0	0	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	9	0	0	1	2	12

SUMMARY OF CURRENT PLAN THROUGH RESOLUTION NO. 15-12-01

<u>Credited Service</u> Total years and fractional parts of years of con-

tributing employment with the District as a Gen-

eral Employee.

<u>Salary</u> Regular pay for services rendered, not including

overtime, incentive or any other non-regular

compensation.

<u>Average Final Compensation</u> Average Salary for the best 5 years during the 10

years immediately preceding retirement or ter-

mination.

Member Contributions 7.0% of Salary

<u>District Contributions</u>

Remaining amount required in order to fund to

actuarial soundness. District has a minimum

contribution of 15.0% of Salaries.

Normal Retirement

Date Earlier of:

1) Age 55 and 7 years of Credited Service, or 2) 25 years of Credited Service, regardless of age.

Benefit 2.48% of Average Final Compensation times

Credited Service.

Form of Benefit Ten Year Certain and Life Annuity (options

available).

Early Retirement

Eligibility Earlier of 1.) Age 50 and 7 Years of Credited

Service, or 2.) 20 years of Credited Service, re-

gardless of age.

Benefit Accrued benefit, reduced 7.0% per year.

Cost of Living Adjustment (COLA)

Normal and Early Retirees and their Beneficiar-

ies receive a 1.35% increase in their benefits each October 1st following retirement (the first adjustment will be a prorated amount of 1.35%).

Vesting

Schedule 100% after 7 years of Credited Service.

Disability

Eligibility

Service Incurred Covered from Date of Employment.

Non-Service Incurred 7 years of Credited Service.

Exclusions Disability resulting from use of drugs, illegal

participation in riots, service in military, etc.

Benefit Benefit accrued to date of disability.

Duration Payable for life with 10 years certain (options

available) or until recovery (as determined by

the Board).

Death Benefits

Pre-Retirement

Vested Monthly accrued benefit payable to designated

beneficiary for 10 years at Member's Normal or

Early (reduced) Retirement Date.

Non-Vested Refund of accumulated contributions without

interest.

Post-Retirement Benefits payable to beneficiary in accordance

with option selected at retirement.

Deferred Retirement Option Plan

Eligibility Satisfaction of Normal Retirement requirements

(earlier of (1) Age 55 with 7 years of Credited Service, or (2) 25 years of Credited Service).

Participation Not to exceed 60 months.

Rate of Return At the Member's election: (1) 6.5% annual rate,

or (2) actual net rate of investment return (total return net of brokerage commissions, management fees, and transaction costs), credited each fiscal quarter. One change between the above is

allowed.

Form of Distribution Cash lump sum (options available) at termina-

tion of employment.

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2018

<u>ASSETS</u>	MARKET VALUE
Cash and Cash Equivalents:	
Money Market	190,674
Total Cash and Equivalents	190,674
Receivables:	
Member Contributions in Transit	2,171
District Contributions in Transit	6,452
Total Receivable	8,623
Investments:	
Fixed Income	1,143,705
Equities	2,373,423
Total Investments	3,517,128
Total Assets	3,716,425
LIABILITIES	
Payables:	
To Firefighters' Trust Fund	197,840
Total Liabilities	197,840
NET POSITION RESTRICTED FOR PENSIONS	3,518,585

End of the Year

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2018

Market Value Basis

ADDITIONS Contributions: Member District	55,701 165,512	
Total Contributions		221,213
Investment Income: Net Increase in Fair Value of Investments Interest & Dividends Less Investment Expense ¹	150,644 118,553 (13,875)	
Net Investment Income		255,322
Total Additions		476,535
DEDUCTIONS Distributions to Members: Benefit Payments Lump Sum DROP Distributions Lump Sum PLOP Distributions Refunds of Member Contributions	157,273 0 67,861 0	
Total Distributions		225,134
Administrative Expense		12,933
Total Deductions		238,067
Net Increase in Net Position		238,468
NET POSITION RESTRICTED FOR PENSIONS Beginning of the Year		3,280,117

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

3,518,585

NOTES TO THE FINANCIAL STATEMENTS

(For the Year Ended September 30, 2018)

Plan Description

Plan Administration

The Plan is a single-employer defined benefit pension plan administered by the Plan's Board of Trustees. The Board shall consist of five Trustees, one of whom, unless otherwise prohibited by law, shall be a legal resident of the District, who shall be appointed by the Bonita Springs Fire Control and Rescue District Board of Commissioners, one of whom shall be a union Member of the System who shall be elected by a majority of the union Members of the System, one of whom shall be a non-union Member of the System who shall be elected by a majority of the non-union Members of the system and one of whom shall be an at-large Trustee of the System, who shall be elected by a majority of all union and non-union General Employees who are Members of the System. The fifth Trustee shall be chosen by a majority of the previous four Trustees.

Plan Membership as of October 1, 2018:

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	10
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	2
Active Plan Members	11
	23

Benefits Provided

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

Normal Retirement:

Date: 1) Age 55 and 7 years of Credited Service, or 2) 25 years of Credited Service, regardless of age.

Benefit: 2.48% of Average Final Compensation times Credited Service.

Early Retirement:

Date: Earlier of 1.) Age 50 and 7 Years of Credited Service, or 2.) 20 years of Credited Service, regardless of age.

Benefit: Accrued benefit, reduced 7.0% per year.

Cost of Living Adjustment (COLA):

Normal and Early service Retirees and their Beneficiaries receive a 1.35% increase in their benefits each

October 1st following retirement (the first adjustment will be a prorated amount of 1.35%).

Vesting:

Schedule: 100% after 7 years of Credited Service.

Disability:

Service Incurred: Covered from Date of Employment.

Non-Service Incurred: 7 years of Credited Service.

Benefit accrued to date of disability.

Pre-Retirement Death Benefits:

Vested: Monthly accrued benefit payable to designated beneficiary for 10 years at Member's Normal or Early (reduced)

Retirement Date.

Non-Vested: Refund of accumulated contributions without interest.

Contributions

Member Contributions: 7.0% of Salary.

District Contributions: Remaining amount required in order to fund to actuarial soundness. District has a minimum

contribution of 15.0% of Salaries.

Investments

Investment Policy:

The following was the Board's adopted asset allocation policy as of September 30, 2018:

Asset Class	Target Allocation
Domestic Equity	45%
International Equity	15%
Domestic Fixed Income	35%
Global Fixed Income	5%
Total	100%

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, 2018, the annual money-weighted rate of return on Pension Plan investments, net of Pension Plan investment expense, was 7.58 percent.

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

Deferred Retirement Option Program

Eligibility: Satisfaction of Normal Retirement requirements (earlier of (1) Age 55 with 7 years of Credited Service, or (2) 25 years of Credited Service).

Participation: Not to exceed 60 months.

Rate of Return: At the Member's election: (1) 6.5% annual rate, or (2) actual net rate of investment return (total return net of brokerage commissions, management fees, and transaction costs), credited each fiscal quarter. One change between the above is allowed.

The DROP balance as September 30, 2018 is \$0.

NET PENSION LIABILITY OF THE SPONSOR

The components of the Net Pension Liability of the Sponsor on September 30, 2018 were as follows:

Total Pension Liability \$ 3,935,545

Plan Fiduciary Net Position \$ (3,518,585)

Sponsor's Net Pension Liability \$ 416,960

Plan Fiduciary Net Position as a percentage of Total Pension Liability 89.41%

Actuarial Assumptions:

The Total Pension Liability was determined by an actuarial valuation as of October 1, 2018 updated to September 30, 2018 using the following actuarial assumptions:

Inflation2.50%Salary IncreasesService basedDiscount Rate7.60%Investment Rate of Return7.60%

Mortality Rate Healthy Active Lives:

Female: RP2000 Generational, 100% Annuitant White Collar, Scale BB.

Male: RP2000 Generational, 50% Annuitant White Collar / 50% Annuitant Blue Collar, Scale BB.

Mortality Rate Healthy Inactive Lives:

Female: RP2000 Generational, 100% Annuitant White Collar, Scale BB.

Male: RP2000 Generational, 50% Annuitant White Collar / 50% Annuitant Blue Collar, Scale BB.

Mortality Rate Disabled Lives:

Female: 100% RP2000 Disabled Female set forward two years.

Male: 100% RP2000 Disabled Male setback four years.

The most recent actuarial experience study used to review the other significant assumptions was dated August 2, 2016.

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 2018 the inflation rate assumption of the investment advisor was 2.50%.

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, 2018 are summarized in the following table:

	Long Term
	Expected Real
Asset Class	Rate of Return
Domestic Equity	7.50%
International Equity	8.50%
Domestic Fixed Income	2.50%
Global Fixed Income	3.50%

Discount Rate:

The Discount Rate used to measure the Total Pension Liability was 7.60 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.

				Current			
	1% Decrease			count Rate	1% Increase		
	6.60%			7.60%		8.60%	
Sponsor's Net Pension Liability	\$	885,328	\$	416,960	\$	27,409	

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 10 Fiscal Years

	(09/30/2018	(09/30/2017	0	9/30/2016
Total Pension Liability						
Service Cost		96,000		100,393		61,946
Interest		274,131		266,267		239,113
Changes of benefit terms		-		-		-
Differences between Expected and Actual Experience		170,358		(66,906)		164,346
Changes of assumptions		43,486		44,142		148,708
Benefit Payments, including Refunds of Employee Contributions		(225,134)		(160,954)		(294,631)
Net Change in Total Pension Liability		358,841		182,942		319,482
Total Pension Liability - Beginning		3,576,704		3,393,762		3,074,280
Total Pension Liability - Ending (a)	\$	3,935,545	\$	3,576,704	\$	3,393,762
Disc F'1 day N a Day'day						
Plan Fiduciary Net Position		165.510		1.4.4.007		100.167
Contributions - Employer		165,512		144,807		133,167
Contributions - Employee		55,701		52,794		48,551
Net Investment Income		255,322		353,297		179,789
Benefit Payments, including Refunds of Employee Contributions		(225,134)		(160,954)		(294,631)
Administrative Expense		(12,933)		(18,785)		(16,781)
Net Change in Plan Fiduciary Net Position		238,468		371,159		50,095
Plan Fiduciary Net Position - Beginning		3,280,117		2,908,958		2,858,863
Plan Fiduciary Net Position - Ending (b)	\$	3,518,585	\$	3,280,117	\$	2,908,958
Net Pension Liability - Ending (a) - (b)	\$	416,960	\$	296,587	\$	484,804
Plan Fiduciary Net Position as a percentage of the Total Pension Liability		89.41%		91.71%		85.71%
Covered Employee Payroll ¹	\$	795,730	\$	754,198	\$	693,579
Net Pension Liability as a percentage of Covered Employee Payroll		52.40%		39.32%		69.90%

Notes to Schedule:

Changes of Assumptions:

For measurement date 09/30/2018, amounts reported as changes of assumptions restulted from lowering the investment return assumption from 7.7% to 7.6% per year, net of investment-related expenses.

For measurement date 09/30/2017, as required by Chapter 2015-157, Laws of Florida, the assumed rates of mortality have been changed from those in the July 1, 2015 FRS valuation report to those used in the July 1, 2016 FRS valuation report. Additionally, the investment rate of return was lowered from 7.80% to 7.70%.

¹ The Covered Employee Payroll numbers shown are in compliance with GASB 82, except for the 09/30/2015 measurement period which includes DROP payroll.

Continued Changes of Assumptions:

For measurement date 09/30/2016, amounts reported as changes of assumptions were a result of the August 2, 2016 actuarial experience study. The following changes were adopted:

- 1. Cost Method was changed from the Frozen Initial Liability Cost Method to the Entry Age Normal Cost Method. This is the same method as required by the Government Accounting Board Standards (GASB) disclosures.
- 2. Investment return assumption was decreased from 8.0% to 7.8%.
- 3. Payroll Growth assumption was reduced from 1.1% to 0.0%
- 4. Salary increase assumption was changed from a flat 6.0% per year to one based on service.
- 5. Mortality table was changed to be the same as used in the Florida Retirement System's July 1, 2015 valuation for non-special risk lives, as required by State Law.
- 6. Retirement rates were changed from 100% at first eligibility to age based rates.
- 7. Withdrawal rates were changed to be lower following the attainment of 7 years of Credited Service.

Additionally, the inflation assumption rate was lowered from 3.00% to 2.50%, matching the long-term inflation assumption utilized by the Plan's investment consultant.

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 10 Fiscal Years

	(09/30/2015	C	09/30/2014
Total Pension Liability				
Service Cost		85,654		79,309
Interest		231,533		215,612
Changes of benefit terms		-		-
Differences between Expected and Actual Experience		-		-
Changes of assumptions		-		-
Benefit Payments, including Refunds of Employee Contributions		(102,839)		(101,671)
Net Change in Total Pension Liability		214,348		193,250
Total Pension Liability - Beginning		2,859,932		2,666,682
Total Pension Liability - Ending (a)	\$	3,074,280	\$	2,859,932
Dien Eideniem Net Desition				
Plan Fiduciary Net Position		154.005		126.276
Contributions - Employer		154,995		126,276
Contributions - Employee		42,715		34,800
Net Investment Income		(13,270)		255,640
Benefit Payments, including Refunds of Employee Contributions		(102,839)		(101,671)
Administrative Expense		(22,284)		(7,595)
Net Change in Plan Fiduciary Net Position		59,317		307,450
Plan Fiduciary Net Position - Beginning		2,799,546		2,492,096
Plan Fiduciary Net Position - Ending (b)	\$	2,858,863	\$	2,799,546
Net Pension Liability - Ending (a) - (b)	\$	215,417	\$	60,386
Plan Fiduciary Net Position as a percentage of the Total Pension Liability		92.99%		97.89%
Covered Employee Payroll ¹	\$	790,658	\$	497,148
Net Pension Liability as a percentage of Covered Employee Payroll		27.25%		12.15%

Notes to Schedule:

¹ The Covered Employee Payroll numbers shown are in compliance with GASB 82, except for the 09/30/2015 measurement period which includes DROP payroll.

SCHEDULE OF CONTRIBUTIONS

Last 10 Fiscal Years

			Co	ntributions					Contributions
			in	relation to					as a percentage
	A	ctuarially	the.	Actuarially	Co	ntribution	(Covered	of Covered
	De	etermined	De	etermined	D	eficiency	F	Employee	Employee
Fiscal Year Ended	Co	ntribution	Co	ntributions	(Excess)		Payroll ¹	Payroll
09/30/2018	\$	158,350		165,512	\$	(7,162)	\$	795,730	20.80%
09/30/2017	\$	144,806	\$	144,807	\$	(1)	\$	754,198	19.20%
09/30/2016	\$	133,167	\$	133,167	\$	-	\$	693,579	19.20%
09/30/2015	\$	154,995	\$	154,995	\$	-	\$	790,658	19.60%
09/30/2014	\$	126,276	\$	126,276	\$	_	\$	497,148	25.40%

¹ The Covered Employee Payroll numbers shown are in compliance with GASB 82, except for the 09/30/2015 measurement period which includes DROP payroll.

Notes to Schedule

Valuation Date:

10/01/2016

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:

Mortality Rate:

Healthy Lives:

Female: RP2000 Generational, 100% Annuitant White Collar, Scale BB.

Male: RP2000 Generational, 50% Annuitant White Collar / 50% Annuitant Blue

Collar, Scale BB *Disabled Lives:*

Female: 100% RP2000 Disabled Female set forward two years.

Male: 100% RP2000 Disabled Male setback four years.

The above assumption rates were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumption 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, 2015 FRS valuation report. We feel this assumption

sufficiently accommodates future mortality improvements.

Patirament

Interest Rate:

7.8% per year compounded annually, net of investment expenses. This assumption is supported by the asset allocation and long-term expected rate of returns of the

asset classes.

Retirement Age:

	Remement
Age	Rate
50	25.0%
51-54	5.0%
55	25.0%
56-59	50.0%
60	50.0%
61-64	50.0%
65+	100.0%

25 years of service, regardless of age. Also, any member who has reached Normal Retirement is assumed to continue employment for one additional year. It is assumed that members who are eligible for Early Retirement (50 & 7 or 20 & out) will retire at the rate of 5% per year.)

Disability Rates:

Table (1202), sample rates below.

Age	Disability Rate
20	0.05%
30	0.06%
40	0.12%
50	0.43%

Termination Rates:

Table 1305 for service <7 and half of table 1305 for service after 7 years. See table below for sample rates.

		Termination
Service	Age	Rate
<7	<30	16.2%
	30-34	15.0%
	35-39	9.8%
	40-44	7.3%
	45+	0.8%
7+	< 30	7.6%
	30-34	7.5%
	35-39	5.0%
	40-44	3.4%
	45+	1.9%
Service	Age	_
<1	10.0%	_
1-4	7.5%	
5+	5.5%	

Salary Increases:

Payroll Growth: None.

Actuarial Cost Method:

Entry Age Normal Cost Method.

Asset Valuation Method: Each year, the prior Actuarial Value of Assets is brought forward utilizing the historical geometric 4-year average Market Value return. It is possible that over time this technique will produce an insignificant bias above or below Market Value.

SCHEDULE OF INVESTMENT RETURNS

Last 10 Fiscal Years

Annual Money-Weighted Rate of Return

Fiscal Year Ended	Net of Investment Expense
09/30/2018	7.58%
09/30/2017	11.85%
09/30/2016	6.45%
09/30/2015	-0.47%
09/30/2014	10.16%

NOTES TO THE FINANCIAL STATEMENTS

(For the Year Ended September 30, 2019)

General Information about the Pension Plan

Plan Description

The Plan is a single-employer defined benefit pension plan administered by the Plan's Board of Trustees. The Board shall consist of five Trustees, one of whom, unless otherwise prohibited by law, shall be a legal resident of the District, who shall be appointed by the Bonita Springs Fire Control and Rescue District Board of Commissioners, one of whom shall be a union Member of the System who shall be elected by a majority of the union Members of the System, one of whom shall be a non-union Member of the System who shall be elected by a majority of the non-union Members of the system and one of whom shall be an at-large Trustee of the System, who shall be elected by a majority of all union and non-union General Employees who are Members of the System. The fifth Trustee shall be chosen by a majority of the previous four Trustees.

All General Employees as of the Effective Date, except the current Human Resources Manager, and all future new General Employees, shall become Members of this System as a condition of employment.

Plan Membership as of October 1, 2018:

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	10
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	2
Active Plan Members	11
	23

Benefits Provided

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

Normal Retirement:

Date: 1) Age 55 and 7 years of Credited Service, or 2) 25 years of Credited Service, regardless of age.

Benefit: 2.48% of Average Final Compensation times Credited Service.

Early Retirement:

Date: Earlier of 1.) Age 50 and 7 Years of Credited Service, or 2.) 20 years of Credited Service, regardless of age.

Benefit: Accrued benefit, reduced 7.0% per year.

Cost of Living Adjustment (COLA):

Normal and Early service Retirees and their Beneficiaries receive a 1.35% increase in their benefits each

October 1st following retirement (the first adjustment will be a prorated amount of 1.35%).

Vesting:

Schedule: 100% after 7 years of Credited Service.

Disability:

Service Incurred: Covered from Date of Employment. Non-Service Incurred: 7 years of Credited Service.

Benefit accrued to date of disability.

Pre-Retirement Death Benefits:

Vested: Monthly accrued benefit payable to designated beneficiary for 10 years at Member's Normal or Early (reduced) Retirement

Non-Vested: Refund of accumulated contributions without interest.

Contributions

Member Contributions: 7.0% of Salary.

District Contributions: Remaining amount required in order to fund to actuarial soundness. District has a minimum contribution of 15.0% of Salaries.

Net Pension Liability

The measurement date is September 30, 2018.

The measurement period for the pension expense was October 1, 2017 to September 30, 2018.

The reporting period is October 1, 2018 through September 30, 2019.

The Sponsor's Net Pension Liability was measured as of September 30, 2018.

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, 2018 updated to September 30, 2018 using the following actuarial assumptions:

Inflation2.50%Salary IncreasesService basedDiscount Rate7.60%Investment Rate of Return7.60%

Mortality Rate Healthy Active Lives:

Female: RP2000 Generational, 100% Annuitant White Collar, Scale BB.

Male: RP2000 Generational, 50% Annuitant White Collar / 50% Annuitant Blue Collar, Scale BB.

Mortality Rate Healthy Inactive Lives:

Female: RP2000 Generational, 100% Annuitant White Collar, Scale BB.

Male: RP2000 Generational, 50% Annuitant White Collar / 50% Annuitant Blue Collar, Scale BB.

Mortality Rate Disabled Lives:

Female: 100% RP2000 Disabled Female set forward two years.

Male: 100% RP2000 Disabled Male setback four years.

The most recent actuarial experience study used to review the other significant assumptions was dated August 2, 2016.

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 2018 the inflation rate assumption of the investment advisor was 2.50%.

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, 2018 are summarized in the following table:

		Long Term Expected
Asset Class	Target Allocation	Real Rate of Return
Domestic Equity	45.0%	7.50%
International Equity	15.0%	8.50%
Domestic Fixed Income	35.0%	2.50%
Global Fixed Income	5.0%	3.50%
Total	100.0%	

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Discount Rate:

The Discount Rate used to measure the Total Pension Liability was 7.60 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			an Fiduciary	l	Net Pension
		Liability	Net Position			Liability
		(a)		(b)		(a)-(b)
Reporting Period Ending September 30, 2018	\$	3,576,704	\$	3,280,117	\$	296,587
Changes for a Year:						
Service Cost		96,000		-		96,000
Interest		274,131		_		274,131
Differences between Expected and Actual Experience		170,358		-		170,358
Changes of assumptions		43,486		-		43,486
Changes of benefit terms		_		_		-
Contributions - Employer		-		165,512		(165,512)
Contributions - Employee		-		55,701		(55,701)
Net Investment Income		_		255,322		(255,322)
Benefit Payments, including Refunds of Employee Contributions		(225,134)		(225, 134)		-
Administrative Expense		_		(12,933)		12,933
Net Changes		358,841		238,468		120,373
Reporting Period Ending September 30, 2019	\$	3,935,545	\$	3,518,585	\$	416,960

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

	Current Discount					
	19	% Decrease	Rate			1% Increase
	6.60%			7.60%		8.60%
Sponsor's Net Pension Liability	\$	885,328	\$	416,960	\$	27,409

Pension Plan Fiduciary Net Position.

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

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

FISCAL YEAR SEPTEMBER 30, 2018

For the year ended September 30, 2018, the Sponsor has recognized a Pension Expense of \$198,420. On September 30, 2018, the Sponsor reported Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions from the following sources:

	Oı	Deferred atflows of esources	In	eferred flows of esources
Differences between Expected and Actual Experience		82,174		50,181
Changes of assumptions		107,462		-
Net difference between Projected and Actual Earnings on Pension Plan investments		10,892		-
Employer contributions subsequent to the measurement date		165,512		-
Total	\$	366,040	\$	50,181

The outcome of the Deferred Outflows of resources related to pensions resulting from Employer contributions subsequent to the measurement date has been recognized as a reduction of the Net Pension Liability in the year ended September 30, 2018. Other 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:	
2020	\$ 93,366
2021	\$ 104,206
2022	\$ (22,085)
2023	\$ (25,140)
2024	\$ -
Thereafter	\$ _

PRELIMINARY PENSION EXPENSE AND DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES RELATED TO PENSIONS FISCAL YEAR SEPTEMBER 30, 2019

For the year ended September 30, 2019, the Sponsor will recognize a Pension Expense of \$239,408.

On September 30, 2019, the Sponsor reported Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions from the following sources:

	Deferred Outflows of Resources	Inf	eferred clows of sources
Differences between Expected and Actual Experience Changes of assumptions	154,659 88,239		33,454
Net difference between Projected and Actual Earnings on Pension Plan investments	-		12,621
Employer contributions subsequent to the measurement date	TBD		-
Total	TBD	\$	46,075

The outcome of the Deferred Outflows of resources related to pensions resulting from Employer contributions subsequent to the measurement date will be recognized as a reduction of the Net Pension Liability in the year ended September 30, 2019. Other 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:	
2020	\$ 174,807
2021	\$ 48,516
2022	\$ (25,820)
2023	\$ (680)
2024	\$ -
Thereafter	\$ _

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 10 Fiscal Years

Reporting Period Ending	(09/30/2019	(09/30/2018	0	09/30/2017
Measuremen Date		09/30/2019		09/30/2018		09/30/2017
Total Pension Liability		09/30/2016		09/30/2017		19/30/2010
Service Cost		96,000		100,393		61,946
Interest		274,131		266,267		239,113
Changes of benefit terms		274,131		200,207		239,113
Differences between Expected and Actual Experience		170,358		(66,906)		164,346
Changes of assumptions		43,486		44,142		148,708
		,		,		
Benefit Payments, including Refunds of Employee Contributions		(225,134)		(160,954)		(294,631)
Net Change in Total Pension Liability		358,841		182,942		319,482
Total Pension Liability - Beginning	_	3,576,704	_	3,393,762	_	3,074,280
Total Pension Liability - Ending (a)	\$	3,935,545	\$	3,576,704	\$	3,393,762
						_
Plan Fiduciary Net Position						
Contributions - Employer		165,512		144,807		133,167
Contributions - Employee		55,701		52,794		48,551
Net Investment Income		255,322		353,297		179,789
Benefit Payments, including Refunds of Employee Contributions		(225,134)		(160,954)		(294,631)
Administrative Expense		(12,933)		(18,785)		(16,781)
Net Change in Plan Fiduciary Net Position		238,468		371,159		50,095
Plan Fiduciary Net Position - Beginning		3,280,117		2,908,958		2,858,863
Plan Fiduciary Net Position - Ending (b)	\$	3,518,585	\$	3,280,117	\$	2,908,958
	_	, ,	<u> </u>	, ,	_	
Net Pension Liability - Ending (a) - (b)	\$	416,960	\$	296,587	\$	484,804
	_		_		_	,
Plan Fiduciary Net Position as a percentage of the Total Pension Liability		89.41%		91.71%		85.71%
Covered Employee Payroll ¹	\$	795,730	\$	754,198	\$	693,579
Net Pension Liability as a percentage of Covered Employee Payroll		52.40%		39.32%		69.90%

Notes to Schedule:

Changes of Assumptions:

For measurement date 09/30/2018, amounts reported as changes of assumptions restulted from lowering the investment return assumption from 7.7% to 7.6% per year, net of investment-related expenses.

For measurement date 09/30/2017, as required by Chapter 2015-157, Laws of Florida, the assumed rates of mortality have been changed from those in the July 1, 2015 FRS valuation report to those used in the July 1, 2016 FRS valuation report. Additionally, the investment rate of return was lowered from 7.80% to 7.70%.

¹ The Covered Employee Payroll numbers shown are in compliance with GASB 82, except for the 09/30/2015 measurement period which includes DROP payroll.

Continued Changes of Assumptions:

For measurement date 09/30/2016, amounts reported as changes of assumptions were a result of the August 2, 2016 actuarial experience study. The following changes were adopted:

- 1. Cost Method was changed from the Frozen Initial Liability Cost Method to the Entry Age Normal Cost Method. This is the same method as required by the Government Accounting Board Standards (GASB) disclosures.
- 2. Investment return assumption was decreased from 8.0% to 7.8%.
- 3. Payroll Growth assumption was reduced from 1.1% to 0.0%
- 4. Salary increase assumption was changed from a flat 6.0% per year to one based on service.
- 5. Mortality table was changed to be the same as used in the Florida Retirement System's July 1, 2015 valuation for non-special risk lives, as required by State Law.
- 6. Retirement rates were changed from 100% at first eligibility to age based rates.
- 7. Withdrawal rates were changed to be lower following the attainment of 7 years of Credited Service.

Additionally, the inflation assumption rate was lowered from 3.00% to 2.50%, matching the long-term inflation assumption utilized by the Plan's investment consultant.

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 10 Fiscal Years

Reporting Period Ending	(09/30/2016	C	9/30/2015
Measuremen Date		09/30/2015		9/30/2014
Total Pension Liability		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Service Cost		85,654		79,309
Interest		231,533		215,612
Changes of benefit terms		, -		_
Differences between Expected and Actual Experience		_		_
Changes of assumptions		-		_
Benefit Payments, including Refunds of Employee Contributions		(102,839)		(101,671)
Net Change in Total Pension Liability		214,348		193,250
Total Pension Liability - Beginning		2,859,932		2,666,682
Total Pension Liability - Ending (a)	\$	3,074,280	\$	2,859,932
Plan Fiduciary Net Position				
Contributions - Employer		154,995		126,276
Contributions - Employee		42,715		34,800
Net Investment Income		(13,270)		255,640
Benefit Payments, including Refunds of Employee Contributions		(102,839)		(101,671)
Administrative Expense		(22,284)		(7,595)
Net Change in Plan Fiduciary Net Position		59,317		307,450
Plan Fiduciary Net Position - Beginning		2,799,546		2,492,096
Plan Fiduciary Net Position - Ending (b)	\$	2,858,863	\$	2,799,546
Not Dancion Linkility Ending (a) (b)	Φ	015 417	Φ	60.206
Net Pension Liability - Ending (a) - (b)	\$	215,417	\$	60,386
Plan Fiduciary Net Position as a percentage of the Total Pension Liability		92.99%		97.89%
Covered Employee Payroll ¹	\$	790,658	\$	497,148
Net Pension Liability as a percentage of Covered Employee Payroll		27.25%		12.15%

Notes to Schedule:

¹ The Covered Employee Payroll numbers shown are in compliance with GASB 82, except for the 09/30/2015 measurement period which includes DROP payroll.

SCHEDULE OF CONTRIBUTIONS

Last 10 Fiscal Years

			in	ntributions relation to					Contributions as a percentage
	Α	ctuarially	the	Actuarially	Co	ntribution	(Covered	of Covered
	De	etermined	De	etermined	D	eficiency	F	Employee	Employee
Fiscal Year Ended	Co	ntribution	Co	ntributions	(Excess)		Payroll ¹	Payroll
09/30/2018	\$	158,350		165,512	\$	(7,162)	\$	795,730	20.80%
09/30/2017	\$	144,806	\$	144,807	\$	(1)	\$	754,198	19.20%
09/30/2016	\$	133,167	\$	133,167	\$	-	\$	693,579	19.20%
09/30/2015	\$	154,995	\$	154,995	\$	-	\$	790,658	19.60%
09/30/2014	\$	126,276	\$	126,276	\$	_	\$	497,148	25.40%

¹ The Covered Employee Payroll numbers shown are in compliance with GASB 82, except for the 09/30/2015 measurement period which includes DROP payroll.

Notes to Schedule

Interest Rate:

Valuation Date: 10/01/2016

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:

Mortality Rate: Healthy Lives:

Female: RP2000 Generational, 100% Annuitant White Collar, Scale BB.

Male: RP2000 Generational, 50% Annuitant White Collar / 50% Annuitant Blue

Disabled Lives:

Female: 100% RP2000 Disabled Female set forward two years.

Male: 100% RP2000 Disabled Male setback four years.

The above assumption rates were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumption 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, 2015 FRS valuation report. We feel this assumption

sufficiently accommodates future mortality improvements.

7.8% per year compounded annually, net of investment expenses. This assumption

is supported by the asset allocation and long-term expected rate of returns of the

asset classes.

Retirement Age:

	Retirement
Age	Rate
50	25.0%
51-54	5.0%
55	25.0%
56-59	50.0%
60	50.0%
61-64	50.0%
65+	100.0%

25 years of service, regardless of age. Also, any member who has reached Normal Retirement is assumed to continue employment for one additional year. It is assumed that members who are eligible for Early Retirement (50 & 7 or 20 & out) will retire at the rate of 5% per year.)

Disability Rates:

Table (1202), sample rates below.

Age	Disability Rate
20	0.05%
30	0.06%
40	0.12%
50	0.43%

Termination Rates:

Table 1305 for service <7 and half of table 1305 for service after 7 years. See table below for sample rates.

		Termination
Service	Age	Rate
<7	<30	16.2%
	30-34	15.0%
	35-39	9.8%
	40-44	7.3%
	45+	0.8%
7+	< 30	7.6%
	30-34	7.5%
	35-39	5.0%
	40-44	3.4%
	45+	1.9%
Service	Age	
<1	10.0%	•
1-4	7.5%	
5+	5.5%	

Salary Increases:

Payroll Growth: None.
Actuarial Cost Method: Entry Age

Asset Valuation Method:

Each year, the prior Actuarial Value of Assets is brought forward utilizing the historical geometric 4-year average Market Value return. It is possible that over time this technique will produce an insignificant bias above or below Market Value.

EXPENSE DEVELOPMENT AND AMORTIZATION SCHEDULES

The f	fol	lowing i	inf	format	ion	is no	t requirec	l to	be	disc	losed	but	t is	provi	ded	fo	r in	format	ional	pur	poses
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FINAL COMPONENTS OF PENSION EXPENSE FISCAL YEAR SEPTEMBER 30, 2018

	t Pension iability	Deferred Inflows	Deferred Outflows	Pension Expense
Beginning balance	\$ 484,804	\$ 21,680	\$ 558,664	\$ -
Employer Contributions made after 09/30/2017	-	-	165,512	-
Total Pension Liability Factors:				
Service Cost	100,393	-	-	100,393
Interest	266,267	-	-	266,267
Changes in benefit terms	-	-	-	-
Differences between Expected and Actual Experience				
with regard to economic or demographic assumptions	(66,906)	66,906	-	-
Current year amortization of experience difference	-	(16,725)	(41,086)	24,361
Change in assumptions about future economic or				
demographic factors or other inputs	44,142	-	44,142	-
Current year amortization of change in assumptions	-	-	(48,211)	48,211
Benefit Payments, including Refunds of Employee				
Contributions	 (160,954)	 		-
Net change	 182,942	 50,181	120,357	439,232
Plan Fiduciary Net Position:				
Contributions - Employer	144,807	-	(144,807)	-
Contributions - Employee	52,794	-	_	(52,794)
Projected Net Investment Income	227,595	-	_	(227,595)
Difference between projected and actual earnings on				
Pension Plan investments	125,702	125,702	-	-
Current year amortization	-	(35,982)	(56,774)	20,792
Benefit Payments, including Refunds of Employee				
Contributions	(160,954)	-	-	-
Administrative Expenses	(18,785)	-	-	18,785
Net change	371,159	 89,720	(201,581)	 (240,812)
Ending Balance	\$ 296,587	\$ 161,581	\$ 477,440	\$ 198,420

PRELIMINARY COMPONENTS OF PENSION EXPENSE FISCAL YEAR SEPTEMBER 30, 2019

	Net Pensio Liability	n 	Deferred Inflows	Deferred Outflows	Pension Expense
Beginning balance	\$ 296,58	37	\$ 161,581	\$ 477,440	\$ -
Employer Contributions made after 09/30/2018	-		-	TBD*	-
Total Pension Liability Factors:					
Service Cost	96,0	00	-	-	96,000
Interest	274,13	31	-	-	274,131
Changes in benefit terms	-		-	-	-
Differences between Expected and Actual Experience					
with regard to economic or demographic assumptions	170,3	58	-	170,358	-
Current year amortization of experience difference	-		(16,727)	(97,873)	81,146
Change in assumptions about future economic or					
demographic factors or other inputs	43,4	86	-	43,486	=
Current year amortization of change in assumptions	-		-	(62,708)	62,708
Benefit Payments, including Refunds of Employee					
Contributions	(225,13	34)	-		
Net change	358,84	41	(16,727)	53,263	513,985
Plan Fiduciary Net Position:					
Contributions - Employer	165,5	12	-	(165,512)	-
Contributions - Employee	55,70	01	-	-	(55,701)
Projected Net Investment Income	251,92		-	-	(251,920)
Difference between projected and actual earnings on					, , ,
Pension Plan investments	3,40	02	3,402	-	-
Current year amortization	-		(36,662)	(56,773)	20,111
Benefit Payments, including Refunds of Employee					
Contributions	(225,13	34)	-	-	-
Administrative Expenses	(12,9)	33)	-	-	12,933
Net change	238,40	68	(33,260)	(222,285)	(274,577)
	¢ 416.04	<u></u>	¢ 111.504	TDD	¢ 220.409
Ending Balance	\$ 416,96	3U S	\$ 111,594	TBD	\$ 239,408

^{*} Employer State Contributions subsequent to the measurement date made after September 30, 2018 but made on or before September 30, 2019 need to be added.

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

	Diff	erences Between															
Plan Year	Proj	ected and Actual	Recognition														
Ending		Earnings	Period (Years)	2018	2019	2020	2021	2022	2023	2024	2025		2026	2027		 2028	
2014	\$	(54,200)	5	\$ (10,840)	\$ (10,840)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	- (-	\$;	-	\$	-
2015	\$	240,137	5	\$ 48,027	\$ 48,027	\$ 48,027	\$ -	\$ -	\$ -	\$ -	\$	- :	-	\$ 3	-	\$	-
2016	\$	43,732	5	\$ 8,747	\$ 8,746	\$ 8,746	\$ 8,746	\$ -	\$ -	\$ -	\$	- 5	-	\$ 3	-	\$	-
2017	\$	(125,702)	5	\$ (25,142)	\$ (25,140)	\$ (25,140)	\$ (25,140)	\$ (25,140)	\$ -	\$ -	\$	- 5	-	\$ 3	-	\$	-
2018	\$	(3,402)	5	\$ -	\$ (682)	\$ (680)	\$ (680)	\$ (680)	\$ (680)	\$ -	\$ -	- 5	-	\$;	-	\$	-
Net Increas	e (De	crease) in Pension	Expense	\$ 20,792	\$ 20,111	\$ 30,953	\$ (17,074)	\$ (25,820)	\$ (680)	\$ -	\$ -	- 5	-	\$ 3	-	\$	-

AMORTIZATION SCHEDULE - CHANGES OF ASSUMPTIONS

Increase (Decrease) in Pension Expense Arising from the Recognition of the Effects of Changes of Assumptions

Plan Year Ending		Changes of Assumptions	Recognition Period (Years)	2018	2019	2020	2021	2022		2023		2024	2025		2026		202	7		2028	8
2016	\$	148,708	4	\$ 37,177	\$ 37,177	\$ 37,177	\$ -	\$	-	\$	- \$	-	\$	-	\$	-	\$	-	. \$		-
2017	\$	44,142	4	\$ 11,034	\$ 11,036	\$ 11,036	\$ 11,036	\$	-	\$	- \$	-	\$	- ;	\$	-	\$	-	\$		-
2018	\$	43,486	3	\$ -	\$ 14,495	\$ 14,495	\$ 14,495	\$	-	\$	- \$	-	\$	- :	\$	-	\$	-	\$		-
Net Increas	e (D	ecrease) in Pension	Expense	\$ 48,211	\$ 62,708	\$ 62,708	\$ 25,531	\$	-	\$	- \$	-	\$	- :	\$	-	\$		\$		

AMORTIZATION SCHEDULE - EXPERIENCE

Increase (Decrease) in Pension Expense Arising from the Recognition of the Effects of Differences between Expected and Actual Experience

Plan Year Ending	Expec	ences Between eted and Actual Experience	Recognition Period (Years)		2018	2019	2020	2021	2022		2023		2024	2025		2026		2027		20	028
2016	\$	164,346	4	\$	41,086	\$ 41,087	\$ 41,087	\$ -	\$	-	\$	-	\$ -	\$	-	\$	- \$	S	-	\$	-
2017	\$	(66,906)	4	\$	(16,725)	\$ (16,727)	\$ (16,727)	\$ (16,727)	\$	-	\$	-	\$ -	\$	-	\$	- \$	6	-	\$	-
2018	\$	170,358	3	\$	-	\$ 56,786	\$ 56,786	\$ 56,786	\$	-	\$	-	\$ -	\$	-	\$	- \$	S	-	\$	-
Net Increase	e (Decr	ease) in Pension	Expense	-\$	24.361	\$ 81.146	\$ 81.146	\$ 40.059	\$	_	\$	_	\$ 	\$	_	\$	- 9	6	_	\$	