

BATAVIA POLICE PENSION FUND
ACTUARIAL VALUATION
AS OF JANUARY 1, 2023
STATUTORY MINIMUM REQUIRED CONTRIBUTION



FOSTER & FOSTER
ACTUARIES AND CONSULTANTS



August 28, 2023

Batavia Police Pension Fund

Re: Actuarial Valuation Report for Statutory Minimum Required Contribution

Dear Board:

We are pleased to present to the Board this report of the annual actuarial valuation of the Batavia Police Pension Fund. 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. Use of the results for other purposes may not be applicable and could produce significantly different results.

The valuation has 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 reflects laws and regulations issued to date pursuant to the provisions of Article 3, Illinois Pension Code, as well as applicable federal laws and regulations. In our opinion, the assumptions used in this valuation, as adopted by the Police Officers' Pension Investment Fund 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.

The funding percentages and unfunded accrued liability as measured based on the actuarial value of assets will differ from similar measures based on the market value of assets. These measures, as provided, are appropriate for determining the adequacy of future contributions, but may not be appropriate for the purpose of settling a portion or all of its liabilities.

In conducting the valuation, we have relied on personnel information supplied by the local Board, asset information and financial reports prepared by the auditors for the Police Officers' Pension Investment Fund, plan design information as defined in Article 3 of the Illinois Pension Code, 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.

In performing the analysis, we used third-party software to model (calculate) the underlying liabilities and costs. These results are reviewed in the aggregate and for individual sample lives. The output from the software is either used directly or input into internally developed models to generate the costs. All internally developed models are reviewed as part of the process. As a result of this review, we believe that the models have produced reasonable results. We do not believe there are any material inconsistencies among assumptions or unreasonable output produced due to the aggregation of assumptions.

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 plan sponsor, nor does anyone at Foster & Foster, Inc. act as a member of the Board of Trustees of the Batavia Police Pension Fund. Thus, there is no relationship existing that might affect our capacity to prepare and certify this actuarial report.

Respectfully submitted,

By: 
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By: 
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SUMMARY OF REPORT

The regular annual actuarial valuation of the Batavia Police Pension Fund, performed as of January 1, 2023, has been completed and the results are presented in this report. The contribution requirements are as follows:

Valuation Date	January 1, 2023
Total Statutory Contribution	3,154,604
Member Contributions (Est.)	<u>(498,327)</u>
Statutory Minimum Contribution	2,656,277
Phase In of 2022 Assumption Changes Impact	<u>136,027</u>
Statutory Minimum Required Contribution (after phase-in) ¹	2,792,304

¹ This calculation is determined in accordance with Section 3-125 of the Illinois Pension Code. This report should not be relied upon for purposes other than determining the current tax levy required under the Illinois Pension Code. The assumptions have been set based on expectations for all Article 3 funds in the State of Illinois. The actuarial methods are prescribed by the Illinois Pension Code and do not necessarily represent the approach recommended by either the actuary or the Police Officers' Pension Investment Fund.

CHANGES SINCE PRIOR VALUATION

Plan Changes Since Prior Valuation

There were no plan changes since the prior valuation.

Actuarial Assumption/Method Changes Since Prior Valuation

The actuarial assumptions have been updated from the prior valuation based on an experience study performed for the Police Officers' Pension Investment Fund dated March 4, 2022 and adopted by the Board of Trustees on September 9, 2022.

There were no method changes since the prior valuation.

SUMMARY OF PRINCIPAL VALUATION RESULTS

A. Participant data

Actives	41
Service Retirees	28
Beneficiaries	6
Disability Retirees	8
Terminated Vested Due Future Annuity	1
Terminated with Accumulated Contributions in Fund	<u>3</u>
Total	87
Total Annual Payroll	4,708,355
Annual Rate of Payments to:	
Service Retirees	2,609,664
Beneficiaries	315,702
Disability Retirees	410,227
Terminated Vested Due Future Annuity	59,433

B. Assets

Actuarial Value (AVA)	40,524,003
Market Value (MVA)	35,275,064

C. Liabilities

Present Value of Benefits (PVB)	
Actives	
Retirement Benefits	26,530,806
Death Benefits	305,664
Disability Benefits	2,135,254
Terminated Vested Benefits	1,231,740
Service Retirees	42,004,936
Beneficiaries	3,347,166
Disability Retirees	6,532,506
Terminated Vested Due Future Annuity	1,064,810
Terminated with Accumulated Contributions in Fund	<u>16,687</u>
Total	83,169,569

SUMMARY OF PRINCIPAL VALUATION RESULTS

C. Liabilities (continued)

Accrued Liability (AL)	
Actives	
Retirement Benefits	16,967,166
Death Benefits	167,500
Disability Benefits	1,121,850
Terminated Vested Benefits	667,177
Service Retirees	42,004,936
Beneficiaries	3,347,166
Disability Retirees	6,532,506
Terminated Vested Due Future Annuity	1,064,810
Terminated with Accumulated Contributions in Fund	<u>16,687</u>
Total	71,889,798
Normal Cost	
Normal Cost (Retirement)	897,176
Normal Cost (Death)	19,984
Normal Cost (Disability)	131,068
Normal Cost (Terminated Vested)	<u>87,165</u>
Total	1,135,393
Unfunded Actuarial Accrued Liability (UAAL = AL - AVA)	31,365,795
Funded Ratio (AVA / AL)	56.4%

D. Amortization Payment

Total Accrued Liability	71,889,798
90% Funded Ratio Target	64,700,818
Actuarial Value of Assets	40,524,003
Liabilities Subject to Amortization over 18 Years	24,176,815
Amortization Payment, Beginning of Year	1,795,648

SUMMARY OF PRINCIPAL VALUATION RESULTS

E. Statutory Minimum Required Contribution ¹

Normal Cost, Including Expense Load ²	1,236,852
Payment Required to Amortize UAAL Over 18 Years ²	<u>1,917,752</u>
Total Statutory Contribution	3,154,604
Expected Member Contributions ²	<u>(498,327)</u>
Statutory Minimum Required Contribution (before phase in)	2,656,277
Phase In of 2022 Assumption Changes Impact	<u>136,027</u>
Statutory Minimum Required Contribution (after phase in) ³	2,792,304

¹ This calculation is determined in accordance with Section 3-125 of the Illinois Pension Code. This report should not be relied upon for purposes other than determining the current tax levy required under the Illinois Pension Code. The assumptions have been set based on expectations for all Article 3 funds in the State of Illinois. The actuarial methods are prescribed by the Illinois Pension Code and do not necessarily represent the approach recommended by either the actuary or the Police Officers' Pension Investment Fund.

² Includes one year of interest.

³ Under Public Act 101-0610, the impact of any assumption changes shall be implemented in equal annual amounts over the 3 year period beginning in the fiscal year of the pension fund in which such change first occurs.

PROJECTION OF BENEFIT PAYMENTS ¹

Year Ending	Payments for Current Actives	Payments for Current Non-Actives	Total Payments
2023	116,331	3,334,518	3,450,849
2024	274,007	3,385,157	3,659,164
2025	434,700	3,534,406	3,969,106
2026	572,535	3,619,219	4,191,754
2027	701,213	3,687,443	4,388,656
2028	841,144	3,752,942	4,594,086
2029	983,060	3,823,674	4,806,734
2030	1,118,192	3,913,069	5,031,261
2031	1,237,107	3,968,003	5,205,110
2032	1,343,756	4,016,707	5,360,463
2033	1,487,002	4,057,908	5,544,910
2034	1,647,841	4,090,537	5,738,378
2035	1,789,552	4,113,607	5,903,159
2036	1,930,312	4,166,935	6,097,247
2037	2,084,783	4,170,104	6,254,887
2038	2,225,447	4,161,825	6,387,272
2039	2,362,234	4,142,125	6,504,359
2040	2,508,537	4,111,543	6,620,080
2041	2,681,910	4,071,133	6,753,043
2042	2,857,311	4,022,390	6,879,701
2043	3,037,591	3,966,976	7,004,567
2044	3,265,869	3,906,542	7,172,411
2045	3,628,959	3,842,471	7,471,430
2046	3,930,143	3,775,748	7,705,891
2047	4,174,781	3,706,750	7,881,531
2048	4,398,766	3,635,191	8,033,957
2049	4,596,254	3,560,218	8,156,472
2050	4,812,587	3,480,352	8,292,939
2051	4,980,555	3,393,733	8,374,288
2052	5,099,989	3,298,247	8,398,236
2053	5,197,387	3,191,653	8,389,040
2054	5,295,733	3,071,909	8,367,642
2055	5,373,889	2,937,367	8,311,256
2056	5,425,303	2,787,057	8,212,360
2057	5,458,002	2,621,135	8,079,137
2058	5,476,193	2,440,932	7,917,125
2059	5,482,105	2,248,762	7,730,867
2060	5,474,845	2,048,051	7,522,896
2061	5,453,570	1,842,817	7,296,387
2062	5,418,927	1,637,280	7,056,207

¹ This illustrates the projection of future benefit payments for the population as it exists on the valuation date without consideration for future hires.

ACTUARIAL ASSUMPTIONS AND METHODS

The assumptions shown below were adopted by the Board September 9, 2022 following a 2022 review of plan experience.

Interest Rate 6.80% per year compounded annually, net of investment related expenses.

Mortality Rate ***Active Lives:***
PubS-2010 Employee mortality, unadjusted, with generational improvements with most recent projection scale (currently Scale MP-2021). 10% of active deaths are assumed to be in the line of duty.

Inactive Lives:
PubS-2010 Healthy Retiree mortality, adjusted by a factor of 1.150 for male retirees and unadjusted for female retirees, with generational improvements with most recent projection scale (currently Scale MP-2021).

Beneficiaries:
PubS-2010 Survivor mortality, unadjusted for male beneficiaries and adjusted by a factor of 1.150 for female beneficiaries, with generational improvements with most recent projection scale (currently Scale MP-2021).

Disabled Lives:
PubS-2010 Disabled mortality, adjusted by a factor of 1.080 for male disabled members and unadjusted for female disabled members, with generational improvements with most recent projection scale (currently Scale MP-2021).

The mortality assumptions sufficiently accommodate anticipated future mortality improvements.

Retirement Age See table at the end of this section.

Disability Rate See table at the end of this section. 60% of the disabilities are assumed to be in the line of duty.

Termination Rate See table at the end of this section.

Salary Increases

See table below.

Salary Scale	
Service	Rate
0	11.00%
1	9.50%
2	8.00%
3	7.50%
4	7.00%
5	6.00%
6	5.00%
7 - 11	4.00%
12 - 29	3.75%
30+	3.50%

Inflation

2.50%.

Cost-of-Living Adjustment

Tier 1: 3.00% per year after age 55. Those that retire prior to age 55 receive an increase of 1/12 of 3.00% for each full month since benefit commencement upon reaching age 55.

Tier 2: 1.25% per year after the later of attainment of age 60 or first anniversary of retirement.

Marital Status

80% of Members are assumed to be married.

Spouse's Age

Males are assumed to be three years older than females.

Funding Method

Projected Unit Credit Cost Method.

Actuarial Asset Method

Investment gains and losses are smoothed over a 5-year period. In the first year, 20% of the gain or loss is recognized. In the second year 40%, in the third year 60%, in the fourth year 80%, and in the fifth year 100% of the gain or loss is recognized. The actuarial investment gain or loss is defined as the actual return on investments minus the actuarial assumed investment return.

Funding Policy Amortization Method

The UAAL is amortized according to a Level Percentage of Payroll method over a period ending in 2040. The initial amortization amount is 90% of the Accrued Liability less the Actuarial Value of Assets.

Payroll Growth

3.00% per year.

Administrative Expenses

Administrative expenses will be estimated as 2% of the fund's total normal cost.

Decrement Tables

<u>% Terminating During the Year</u>		<u>% Becoming Disabled During the Year</u>		<u>% Retiring During the Year (Tier 1)</u>		<u>% Retiring During the Year (Tier 2)</u>	
<u>Service</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
0	13.00%	20	0.000%	50 - 54	20%	50 - 54	5%
1	8.00%	25	0.029%	55 - 62	25%	55	40%
2	7.00%	30	0.133%	63	33%	56 - 62	25%
3	6.00%	35	0.247%	64	40%	63	33%
4	5.00%	40	0.399%	65 - 69	55%	64	40%
5	4.50%	45	0.561%	70+	100%	65 - 69	55%
6	4.00%	50	0.675%			70+	100%
7	3.50%	55	0.855%				
8	3.00%	60	1.093%				
9	2.50%						
10	2.25%						
11	2.00%						
12	1.75%						
13	1.50%						
14+	1.25%						

GLOSSARY

Total Annual Payroll is the projected annual rate of pay for the fiscal year following the valuation date of all covered members.

Present Value of Benefits 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.

Accrued Actuarial Liability is determined according to the plan's actuarial cost method. This amount represents the portion of the anticipated future benefits allocated to years prior to the valuation date.

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

Market Value of Assets is the fair market value of plan assets as of the valuation date. This amount may be adjusted to produce an Actuarial Value of Assets for plan funding purposes.

Actuarial Value of Assets is the asset value used in the valuation to determine contribution requirements. It represents the plan's Market Value of Assets, with adjustments according to the Actuarial Asset Method. These adjustments produce a "smoothed" value that is likely to be less volatile from year to year than the Market Value of Assets.

Unfunded Accrued Liability is the excess of the Accrued Actuarial Liability over the Actuarial Value of Assets.

Statutory Minimum Required Contribution is equal to the Normal Cost plus an amount sufficient to amortize the Unfunded Accrued Liability to achieve a 90% funding target by 2040. The required amount is adjusted for interest to year-end.

Projected Unit Credit Actuarial Cost Method (Level Percent of Compensation) is the method used to determine statutory minimum required contributions under the Plan. The use of this method involves the systematic funding of the Normal Cost (described above) and the Unfunded Accrued (Past Service) Liability. The actuarial accrued liability is the present value of accrued benefits, utilizing projected salary for active Plan Participants.

DISCUSSION OF RISK

Actuarial Standard of Practice 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 under various assumption scenarios. 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 current-year financial impact on the plan's unfunded liability of the experience differing from assumptions; this gain or loss is amortized over a period of time determined by the plan's amortization method. 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 amortization payment 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.
- Salary Increases: When a plan participant experiences a salary increase that was greater than assumed, this produces a loss representing the cost of an increase in anticipated plan benefits for the participant as compared to the previous year. The total gain or loss associated with salary increases for the plan is the sum of salary gains and losses for all active participants.
- Payroll Growth: The plan's payroll growth assumption causes a predictable annual increase in the plan's amortization payment in order to produce an amortization payment that remains constant as a percentage of payroll if all assumptions are realized. If payroll does not increase according to the plan's payroll growth assumption, the plan's amortization payment can increase significantly as a percentage of payroll even if all assumptions other than the payroll growth assumption are realized.
- Demographic Assumptions: Actuarial results take into account various potential events that could happen to a plan participant, such as retirement, termination, disability, and death. Each of these potential events 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 retirement at one of various possible ages). Once the outcome is known (e.g. the participant retires) 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.

- Contribution Risk: This risk results from the potential that actual employer contributions may deviate from actuarially determined contributions. Contribution deficits, particularly large deficits and those that occur repeatedly, increase future contribution requirements and put the plan at risk for not being able to pay plan benefits when due.

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, 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. Similarly, mature 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.

Metrics to Help Assess Risk

Below are descriptions of some metrics that can be used to help assess risk. To assist with determining the maturity of the plan, we have provided some relevant metrics in the table at the end of this section provides these metrics for the fund.

- Support Ratio: The support ratio is determined as the ratio of active to inactive members. This metric speaks to the maturity of the plan, with a low ratio indicating a more mature plan.
- Asset Volatility Ratio: The asset volatility ratio is determined as the ratio of the Market Value of Assets to Total Payroll. It is a measure of the impact of investment volatility on employer contributions which are paid as a percentage of payroll. Although Market Value of Asset growth that exceeds payroll growth may contribute to the financial stability of the plan, the amortization of changes in these higher asset values have a greater impact on contribution volatility as this ratio increases.
- Accrued Liability (AL) Ratio: The accrued liability ratio is the proportion of Total Accrued Liability attributable to inactive members. A higher ratio indicates a more mature plan. Mature plans will see increased risk since losses due to lower than expected investment returns or demographic factors will need to be made up for over a shorter time horizon than would be needed for a less mature plan.

- Funded Ratio: The funded ratio is determined as the ratio of the Actuarial Value of Assets to the Total Accrued Liability. This ratio generally reflects the financial health of the plan but should not be considered in isolation since it is very sensitive to changes in actuarial methods and assumptions.
- Net Cash Flow Ratio: The net cash flow ratio is determined as the ratio of the Net Cash Flow (contributions minus benefit payments and administrative expenses) to the Market Value of Assets. Mature plans paying substantial retirement benefits resulting in small positive or negative cash flows may be more sensitive to near term investment volatility.

It is important to note that the actuary has identified the risks above 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 may be helpful in some situations.

RISK METRICS

Support Ratio

Total Actives	41
Total Inactives	46
Actives / Inactives	89.1%

Asset Volatility Ratio

Market Value of Assets (MVA)	35,275,064
Total Annual Payroll	4,708,355
MVA / Total Annual Payroll	749.2%

Accrued Liability (AL) Ratio

Inactive Accrued Liability	52,966,105
Total Accrued Liability	71,889,798
Inactive AL / Total AL	73.7%

Funded Ratio

Actuarial Value of Assets (AVA)	40,524,003
Total Accrued Liability	71,889,798
AVA / Total Accrued Liability	56.4%

Net Cash Flow Ratio

Net Cash Flow ¹	336,559
Market Value of Assets (MVA)	35,275,064
Ratio	1.0%

¹ Determined as total contributions minus benefit payments and administrative expenses.

ASSETS

Changes in Market Value of Assets

Market Value of Assets as of December 31, 2021	41,375,529
Benefit payments during fiscal year 2022	(3,054,792)
Administrative expense during fiscal year 2022	(70,069)
Total contributions during fiscal year 2022	<u>3,461,420</u>
Contributions Less Benefit Payments & Administrative Expenses	336,559
Actual Net Investment Earnings	<u>(6,437,024)</u>
Market Value of Assets as of December 31, 2022	35,275,064

Development of Investment Gain/Loss

Expected Investment Earnings ¹	2,700,348
Actual Net Investment Earnings	<u>(6,437,024)</u>
Actuarial Investment Gain/(Loss)	<u>(9,137,372)</u>

¹ Expected Investment Earnings = 6.50% x (41,375,529 + 0.5 x 336,559)

Gains/(Losses) Not Yet Recognized

Fiscal Year	Gain/(Loss)	Amounts Not Yet Recognized by Valuation Year			
Ending		2022	2023	2024	2025
2019	3,413,589	682,718	0	0	0
2020	1,704,068	681,627	340,814	0	0
2021	1,161,023	696,614	464,409	232,205	0
2022	(9,137,372)	<u>(7,309,898)</u>	<u>(5,482,423)</u>	<u>(3,654,949)</u>	<u>(1,827,474)</u>
Total		<u>(5,248,939)</u>	<u>(4,677,200)</u>	<u>(3,422,744)</u>	<u>(1,827,474)</u>

Development of Actuarial Value of Assets

Market Value of Assets as of December 31, 2022	35,275,064
(Gains)/Losses Not Yet Recognized	<u>5,248,939</u>
Actuarial Value of Assets as of December 31, 2022	40,524,003

SUMMARY OF CURRENT PLAN

Article 3 Pension Fund

The Plan is established and administered as prescribed by “Article 3. Police Pension Fund – Municipalities 500,000 and Under” of the Illinois Pension Code.

Plan Administration

The Plan is a single employer defined benefit pension plan administered by a Board of Trustees comprised of:

- a.) Two members appointed by the Municipality,
- b.) Two active Members of the Police Department elected by the Membership, and
- c.) One retired Member of the Police Department elected by the Membership.

Credited Service

Complete years of service as a sworn police officer employed by the Municipality.

Normal Retirement

Date

Tier 1: Age 50 and 20 years of Credited Service.

Tier 2: Age 55 with 10 years of Credited Service.

Benefit

Tier 1: 50% of annual salary attached to rank on last day of service plus 2.50% of annual salary for each year of service over 20 years, up to a maximum of 75% of salary. The minimum monthly benefit is \$1,000 per month.

Tier 2: 2.50% per year of service times the average salary for the 48 consecutive months of service within the last 60 months of service in which the total salary was the highest prior to retirement times the number of years of service, up to a maximum of 75% of average salary. The minimum monthly benefit is \$1,000 per month.

For Tier 2 participants, the salary is capped at a rate of \$106,800 as of 2011, indexed annually at a rate of CPI-U, but not to exceed 3.00%.

Form of Benefit

Tier 1: For married retirees, an annuity payable for the life of the Member; upon the death of the member, 100% of the Member’s benefit payable to the spouse until death. For unmarried retirees, the normal form is a Single Life Annuity.

Tier 2: Same as above, but with 66 2/3% of benefit continued to spouse.

Early Retirement

Date	Tier 1: Age 60 and 8 years of Credited Service. Tier 2: Age 50 with 10 years of Credited Service.
Benefit	Tier 1: Normal Retirement benefit with no minimum. Tier 2: Normal Retirement benefit, reduced 6.00% each year before age 55, with no minimum benefit.
Form of Benefit	Same as Normal Retirement

Disability Benefit

Eligibility	Total and permanent as determined by the Board of Trustees.
Benefit Amount	A maximum of: <ul style="list-style-type: none">a.) 65% of salary attached to the rank held by Member on last day of service, and;b.) The monthly retirement pension that the Member is entitled to receive if he or she retired immediately.

For non-service connected disabilities, a benefit of 50% of salary attached to rank held by Member on last day of service.

Cost-of-Living Adjustment

Tier 1:

Retirees: An annual increase equal to 3.00% per year after age 55. Those that retire prior to age 55 receive an increase of 1/12 of 3.00% for each full month since benefit commencement upon reaching age 55.

Disabled Retirees: An annual increase equal to 3.00% per year of the original benefit amount beginning at age 60. Those that become disabled prior to age 60 receive an increase of 3.00% of the original benefit amount for each year since benefit commencement upon reaching age 60.

Tier 2: An annual increase each January 1 equal to 3.00% per year or one-half of the annual unadjusted percentage increase in the consumer price index-u for the 12 months ending with the September preceding each November 1, whichever is less, of the original pension after the attainment of age 60 or first anniversary of pension start date whichever is later.

Pre-Retirement Death Benefit

Service Incurred	100% of salary attached to rank held by Member on last day of service.
Non-Service Incurred	A maximum of: <ul style="list-style-type: none">a.) 54% of salary attached to the rank held by Member on last day of service, and;b.) The monthly retirement pension earned by the deceased Member at the time of death, regardless of whether death occurs before or after age 50.

For non-service deaths with less than 10 years of service, a refund of member contributions is provided.

Vesting (Termination)

Vesting Service Requirement	Tier 1: 8 years. Tier 2: 10 years.
Non-Vested Benefit	Refund of Member Contributions.
Vested Benefit	Either the termination benefit, payable upon reaching age 60 (55 for Tier 2), provided contributions are not withdrawn, or a refund of member contributions. The termination benefit is 2.50% of annual salary held in the year prior to termination (4-year final average salary for Tier 2) times creditable service.

Contributions

Employee	9.91% of Salary.
Municipality	Remaining amount necessary for payment of Normal (current year's) Cost and amortization of the accrued past service liability.