

**ACTUARIAL VALUATION OF
TOWN OF DAVIE POLICE
PENSION PLAN
AS OF OCTOBER 1, 2023**

February 2024

Determination of Contribution for the
Plan Year ending September 30, 2024
Contribution to be
Paid in Fiscal Year October 1, 2023
through September 30, 2024

**DuLaney and Company, Inc.
Actuarial Services**

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February 9, 2024

Board of Trustees
Town of Davie Police Pension Plan
c/o Mr. Greg Brilliant
Precision Pension Administration, Inc.
13790 NW 4th Street, Suite 105
Sunrise, FL 33325

Dear Board Members:

We are pleased to present the October 1, 2023 Actuarial Valuation for the Town of Davie Police Pension Plan. The purpose of this report is to indicate appropriate contribution levels and to satisfy State requirements. The report is prepared for and at the request of the Board of Trustees.

This report consists of this commentary, detail Tables I through XV and State Required Exhibit - Table XVI. The Tables contain basic Retirement Plan cost figures plus significant detail on the benefits, liabilities and experience of your Plan.

Costs for Fiscal Year Beginning October 1, 2023

This Actuarial Valuation develops the required minimum Retirement Plan payment for the fiscal year beginning October 1, 2023 and ending September 30, 2024 under the Florida Protection of Public Employee Retirement Benefits Act and Chapter 185. The minimum payment consists of payment of annual normal cost plus amortization of the unfunded actuarial accrued liability over various periods, and interest, as prescribed by law. We anticipated that member pension contributions will be \$1,386,863 (9.0% of covered payroll).

The required funding amount for the plan/fiscal year ending September 30, 2024, to be met by the Town and State contributions under Chapter 185, is **\$10,048,337** or 65.2% of the covered payroll. Please note that Chapter 185 states that employer contributions must be made at least quarterly, and these quarterly amounts must be at least **\$2,200,232**.

The anticipated State (Chapter 185) contribution is **\$1,247,409**. The resulting Town required contribution is **\$8,800,928**, or 57.1% of the covered payroll. If the actual Chapter 185 contribution is below the anticipated \$1,247,409, the difference must be made up by an additional Town contribution.

The Town contributed its entire contribution for the 10/1/2022 - 9/30/2023 plan year in a single payment of \$6,150,000 on 10/27/2022, rather than making contributions throughout the plan year. From the 10/1/2022 valuation report, the Town's Minimum Funding Requirement (MFR) was \$7,857,292, but the MFR as of 10/27/2022 was only \$7,571,643, resulting in a shortfall contribution of \$1,421,643 (\$6,150,000 - \$7,571,643). The Town used \$1,217,979 of the cumulative Prepaid Town Contribution on October 1, 2022 of \$5,480,073 (as shown on Table IV, item B.1. on the October 1, 2022 actuarial valuation report), plus \$203,664 "excess" Chapter 185 contributions from the State (\$1,247,409 actual - \$1,043,745 assumed), to meet its MFR.

Changes in Plan Provisions, Actuarial Methods or Assumptions Recognized in this Valuation

The plan provisions remained the same as those recognized in our October 1, 2022 valuation. The plan provisions are outlined in Table X.

There were no changes in actuarial assumptions and methods from those utilized in the last actuarial valuation. Table XI contains an outline of the assumptions and methods used.

Comparison of October 1, 2022 and October 1, 2023 Valuation Results

Table II of the report provides information of a comparative nature. Column I shows the results of the October 1, 2022 Actuarial Valuation while Column II shows the results as of October 1, 2023 prior to the change in actuarial asset method. A comparison of the two columns shows the effect of plan experience during the year. Covered payroll decreased by approximately 0.4% while the number of active participants decreased by 4.6%. The unfunded liability increased from \$43,830,917 to \$51,031,759. The actuarial loss experienced during the plan year was \$8,470,395. The Town's minimum funding requirement increased as a dollar amount from \$7,857,292 to \$8,800,928 and as a percentage of covered payroll.

Plan Experience

Table XV provides a summary of certain plan experience during the plan year. The actuarial value of assets return was 3.5% for the 2022/2023 plan year, which was less than the assumed 6.95%. The market value rate of return was 9.1%. The actuarial value of assets return contributed mainly to the actuarial loss. Employee turnover was 30% lower than the expected turnover during the last plan year, and the most recent three (3) and five (5) year averages were 57% and 79% of the expected amounts, respectively. Average salary increase was 9.6%, as compared to the assumed 5.5%. Both the salary increase and employee turnover were sources of actuarial loss during the plan year.

Participant Census and Financial Data

Census data for the fiscal year October 1, 2022 through September 30, 2023 was provided by the Town. Supplemental information was also received on retirees and terminations from the plan custodian and the plan administrator. The data was reviewed for consistency and is believed to be reliable.

Information on Plan assets was received from the Plan's auditors. We did not audit this information; however, we believe it to be reliable.

Identification and Assessment of Risk

The liabilities and cost presented in this report are based on numerous assumptions concerning the cost of benefits to be provided in the future, long-term investment returns, and the futu

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demographic experience of the current participants. Anyone referring to this report should remember that the cost developed herein is only an estimate of the true cost of providing post-employment pension benefits. No one can predict with certainty whether the true cost will be higher or lower than the cost presented in this report. The calculated cost is entirely dependent upon the assumptions that are described in Table XI. If any of the assumptions are changed, then the cost shown in this report will change accordingly. Likewise, there is always a risk that, should these assumptions not be realized, the liabilities of the plan, the contributions required to fund the plan, and the funded status of the plan may be significantly different than the amounts shown in this report.

Although a thorough analysis of the risk of not meeting the assumptions is beyond the scope of this report, this discussion is intended to identify the significant risks faced by the plan. In some cases, a more detailed review of the risks, including numerical analysis, may be appropriate to help the plan sponsor and other interested parties assess the specific impact of not realizing certain assumptions. Note that this report is not intended to provide advice on the management or reduction of the identified risks nor is this report intended to provide investment advice.

The most significant risk faced by most defined benefit pension plans is investment risk, i.e. the risk that long-term investment returns will be less than assumed. Other related risks include a risk that, if the investments of the plan decline dramatically over a short period of time (such as occurred with many pension plans in 2008), the plan's assets may not have sufficient time to recover before benefits become due. Even if the assets of the plan grow in accordance with the assumed investment return over time, if benefit payments are expected to be large in the short-term, the plan's assets may not be sufficient to support such a high level of benefit payments.

Another source of risk is demographic experience. This is the risk that participants will retire, become disabled, or terminate their employment at a rate that is different than assumed, and that participants will live longer than assumed, just to cite a few examples of the demographic risk faced by the plan. Although for most pension plans, the demographic risk is not as significant as the investment risk, particularly in light of the fact that the mortality assumption includes a component for future life expectancy increases; the demographic risk can nevertheless be a significant contributing factor to liabilities and contribution rates that become higher than anticipated.

Finally, an actuarial funding method has been used to allocate the gap between projected liabilities and assets to each year in the future. The contribution rate under some funding methods is higher during the early years of the plan and then is lower during the later years of the plan. Other funding methods provide for lower contribution rates initially, with increasing contribution rate over time. The Trustees have adopted the entry age normal cost, level percent of pay funding method for this plan. Under this method, the contribution requirement is expected remain relatively constant as a percentage of covered payroll over the next 10 to 20 years absent investment or demographic experience.

Certification

To the best of our knowledge, this report fairly and accurately represents the liabilities of the fund as of October 1, 2023, based on the participant data and asset information provided by the plan administrator and the plan provisions and actuarial assumptions set forth herein. We believe that these assumptions are reasonable both individually and in the aggregate and represent our best estimate of anticipated experience. All calculations set forth herein conform to generally accepted actuarial principles and practices and comply with our understanding of the current requirements of the IRC.

DuLaney and Company



Donald A. DuLaney, Jr. A.S.A., E.A.
Senior Consulting Actuary



Corinne Paull, A.S.A.
Actuary

DAD/CP
Attachments

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Table I

TOWN OF DAVIE POLICE PENSION PLAN

Summary of Retirement Plan Costs as of October 1, 2023

	<u>Cost Data</u>	<u>% of Payroll</u>
A. <u>Participant Data Summary</u>		
1. Active employees	145	N/A
2. Terminated vested	6	N/A
3. Receiving benefits	148	N/A
4. DROP participants	38	N/A
5. Annual payroll of active employees	\$ 15,409,589	100.0%
B. <u>Total Normal Costs</u>		
1. Age retirement benefits	\$ 4,366,632	28.3%
2. Termination benefits	268,235	1.7%
3. Death benefits	50,067	0.3%
4. Disability benefits	120,502	0.8%
5. Estimated expenses	<u>194,461</u>	<u>1.3%</u>
6. Total annual normal costs	\$ 4,999,897	32.4%
C. <u>Total Actuarial Accrued Liability</u>		
1. Age retirement benefits active employees	\$ 61,287,140	397.7%
2. Termination benefits active employees	2,012,558	13.1%
3. Death benefits active employees	121,057	0.8%
4. Disability benefits active employees	564,853	3.7%
5. Retired or terminated vested participants	119,063,580	772.7%
6. DROP participants benefits	58,052,007	376.7%
7. Terminated vested participants entitled to future benefits	1,637,942	10.6%
8. Deceased participants whose beneficiaries are receiving benefits	4,800,981	31.2%
9. Disabled participants receiving benefits	<u>3,310,580</u>	<u>21.5%</u>
10. Total actuarial accrued liability	\$ 250,850,698	1627.9%
D. <u>Actuarial Value of Assets (Table VI)</u>	\$ 199,818,939	1296.7%
E. <u>Unfunded Actuarial Accrued Liability (C. – D.)</u>	\$ 51,031,759	331.2%

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Table I
(continued two)

F.	<u>Minimum Funding Requirements</u>		
1.	Total normal cost	\$ 4,999,897	32.4%
2.	Amortization of unfunded actuarial accrued liability	5,951,732	38.6%
3.	Interest adjustment	<u>483,571</u>	<u>3.1%</u>
4.	Total payment	\$ 11,435,200	74.2%
G.	<u>Contribution Sources</u>		
1.	a) Town	\$ 8,800,928	57.1%
	b) State	<u>1,247,409</u>	<u>8.1%</u>
	c) Total Town and State	\$ 10,048,337	65.2%
2.	Employees	\$ 1,386,863	9.0%
H.	<u>Actuarial Present Value of Vested Accrued Benefits</u>		
1.	Retired, terminated vested, beneficiaries and disabled receiving benefits	\$ 127,175,141	825.3%
2.	DROP participants	58,052,007	376.7%
3.	Terminated vested participants entitled to future benefits	1,637,942	10.6%
4.	Active participants entitled to future benefits	<u>38,455,883</u>	<u>249.6%</u>
5.	Total actuarial present value of vested accrued benefits	\$ 225,320,973	1462.2%
I.	<u>Market Value of Assets (Table V)</u>	\$ 183,585,632	1191.4%
J.	<u>Unfunded Actuarial Present Value of Vested Accrued Benefits (H. - I., not less than \$0)</u>	\$ 41,735,341	270.8%
K.	<u>Vested Benefit Security Ratio (I. ÷ H.)</u>	81.5%	N/A

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Table II

TOWN OF DAVIE POLICE PENSION PLAN

Comparison of Cost Data of October 1, 2022 and October 1, 2023 Actuarial Valuations

	October 1, 2022		October 1, 2023	
	Cost Data	% of Annual Compensation	Cost Data	% of Annual Compensation
A. Participants				
1. Active employees				
Tier One + Tier Two = Total	52+ 100 = 152	N/A	38 + 107 = 145	N/A
2. Terminated vested	6	N/A	6	N/A
3. Receiving benefits	136	N/A	148	N/A
4. DROP participants	36	N/A	38	N/A
5. Annual payroll of active Employees ¹	\$ 15,475,959	100.0%	\$ 15,409,589	100.0%
B. Total Normal Costs	\$ 5,061,481	32.7%	\$ 4,999,897	32.4%
C. Total Actuarial Accrued Liability	\$ 238,380,336	1540.3%	\$ 250,850,698	1627.9%
D. Actuarial Value of Assets	\$ 194,549,419	1257.1%	\$ 199,818,939	1296.7%
E. Unfunded Actuarial Accrued Liability	\$ 43,830,917	283.2%	\$ 51,031,759	331.2%
F. Town Minimum Funding Requirement	\$ 7,857,292	50.8%	\$ 8,800,928	57.1%
G. Unfunded Actuarial Present Value of Vested Accrued Benefits ²	\$ 44,834,271	289.7%	\$ 41,735,341	270.8%
H. Vested Benefit Security Ratio ²	79.2%	N/A	81.5%	N/A

¹ Covered payroll includes up to 300 hours of overtime pay per year.

² Calculated based on market value of assets.



Table III

TOWN OF DAVIE POLICE PENSION PLAN

Characteristics of Participants in
Actuarial Valuation as of October 1, 2023

A. Characteristic of Active Participants

1.	Active participants as of beginning of prior year	152
2.	New entrants during prior year	10
3.	Exits during prior year	(17)
4.	Active participants as of beginning of year	145
5.	Active participants fully vested	54
6.	Active participants partially vested	0
7.	Active participants non-vested	91
8.	Annual payroll of active participants	\$ 15,409,589
9.	Average pay	\$ 106,273
10.	Average attained age	36.56 years
11.	Percent female	18.62%

B. Characteristics of Inactive Participants

1.	Inactives as of beginning of prior year	178
2.	Newly inactive during prior year	14
3.	Exits during prior year	(0)
4.	Inactives as of beginning of year	192
5.	Age retirees	129
6.	Annual benefit for age retirees	\$ 9,476,249
7.	DROP participants	38
8.	Annual benefit for DROP participants	\$ 3,991,667
9.	Beneficiaries receiving benefits	13
10.	Annual benefits for beneficiaries receiving benefits	\$ 431,582
11.	Beneficiaries due deferred benefits	0
12.	Annual benefits for beneficiaries due deferred benefits	\$ 0
13.	Disabled participants receiving benefits	6
14.	Annual benefits for disabled participants	\$ 280,780
15.	Terminated vested due deferred benefits	6
16.	Annual benefits for terminated vested participants	\$ 163,806

Table IV

TOWN OF DAVIE POLICE PENSION PLAN

Statement of Assets as of October 1, 2023¹

		Market Value
A.	<u>Assets</u>	
	1. Cash and Cash Equivalents	\$ 4,843,508
	2. Corporate Bonds	3,631,678
	3. U. S. Government Securities	24,801,278
	4. Domestic Stocks	121,999,158
	5. Mortgages	0
	6. Receivables	208,485
	7. Hedge Fund	10,486,621
	8. International Equity Fund	0
	9. Real Estate Fund	35,068,231
	10. Prepaid Expenses	10,043
	11. Self-Directed DROP	<u>4,389,472</u>
	12. Total Assets	\$ 205,438,474
B.	<u>Liabilities</u>	
	1. Prepaid Town Contributions	4,262,094
	2. Self-Directed DROP	4,389,472
	3. DROP Benefits Payable	13,175,168
	4. Unused Chapter 185 Funds	0
	5. Accounts Payable	<u>26,108</u>
	6. Total Liabilities	\$ 21,852,842
C.	<u>Grand Total (Item A.12. – Item B.6.)</u>	\$ 183,585,632

¹ As reported by Plan's Auditors.

Table V

TOWN OF DAVIE POLICE PENSION PLAN

Reconciliation of Plan Assets

A.	<u>Market Value of Assets as of October 1, 2022</u>		\$ 170,550,085
B.	<u>Receipts During Period</u>		
1.	Contributions		
a.	Town	\$ 6,566,449	
b.	Employee	2,551,129	
c.	State (not limited by 99-1)	<u>1,247,409</u>	
d.	Total		\$ 10,364,987
2.	Investment income		
a.	Interest, dividends and Miscellaneous income	\$ 4,058,258	
b.	Investment expenses	<u>(1,041,619)</u>	
c.	Net		\$ 3,016,639
3.	Net gains (losses)		
a.	Realized gains (losses)	\$ 0	
b.	Unrealized gains (losses)	<u>11,646,976</u>	
c.	Total gains (losses)		<u>11,646,976</u>
4.	Total receipts during period (1.d. + 2.c. + 3.c.)		\$ 25,028,602
C.	<u>Disbursements During Period</u>		
1.	Pension payments		\$ 9,715,378
2.	DROP payments		2,018,058
3.	Contribution refunds		65,158
4.	Administrative expenses		194,461
5.	Increase / (decrease) in COLA reserve		0
6.	Increase / (decrease) in State contribution reserve		<u>0</u>
7.	Total disbursements during period		\$ 11,993,055
D.	<u>Market Value of Assets as of October 1, 2023 (A. + B.4. - C.7.)</u>		<u>\$ 183,585,632</u>
E.	<u>Reconciliation of DROP Accounts Balance</u>		
1.	DROP accounts balance as of October 1, 2022		\$ 13,059,474
2.	Benefit payments into DROP accounts during year		2,018,058
3.	Unused Leave Pay Transfer during year		354,255
4.	Disbursements from DROP accounts during year		(3,416,792)
5.	Expenses deducted from DROP accounts		(5,230)
6.	Investment gains/(losses) during year		<u>1,165,403</u>
7.	DROP accounts balance as of September 30, 2023		\$ 13,175,168

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Table VI

TOWN OF DAVIE POLICE PENSION PLAN

Development of Actuarial Value of Assets

	10/1/2022 – 9/30/2023	10/1/2021 – 9/30/2022	10/1/2020 – 9/30/2021
A. Market value of assets as of beginning of year	\$ 170,550,085	\$ 207,462,311	\$ 172,609,209
B. Contributions	10,364,987	8,955,163	8,955,936
C. Benefit payments and expenses	11,993,055	11,435,748	10,801,664
D. Expected investment income (A. x .0695 + (B.-C.) x .03475)	11,796,656	14,332,430	12,704,790
E. Expected assets at end of year (A. + B. – C. + D.)	180,718,673	219,314,156	183,468,271
F. Actual market value at end of year	183,585,632	170,550,085	207,462,311
G. Excess/(shortfall) of actual over expected assets (F. – E.)			
1. From previous plan year	2,866,959	(48,764,071)	23,994,040
2. From two plan years ago	(48,764,071)	23,994,040	2,306,796
3. From three plan years ago	23,994,040	2,306,796	(9,733,858)
H. Deferred recognized amounts of excess/(shortfall)			
1. 75% from previous plan year	2,150,219	(36,573,053)	7,998,013
2. 50% from two plan years ago	(24,382,036)	11,997,020	768,932
3. 25% from three plan years ago	5,998,510	576,699	(3,244,619)
4. Total	(16,233,307)	(23,999,334)	5,522,326
I. Preliminary actuarial value of assets at end of year (F. – H.4.)	\$ 199,818,939	\$ 194,549,419	\$ 201,939,985
J. 80% of end of year market value of assets	146,868,506	136,440,068	165,969,849
K. 120% of end of year market value of assets	220,302,758	204,660,102	248,954,773
L. Actuarial value of assets (I., but not less than J. and not more than K.)	\$ 199,818,939	\$ 194,549,419	\$ 201,939,985

Table VII

TOWN OF DAVIE POLICE PENSION PLAN

Actuarial Gains (Losses) for Plan Year Ended September 30, 2023

Derivation of Actuarial Gain (Loss)

1. Town and State normal cost previous valuation	\$	3,668,645
2. Unfunded actuarial accrued liability previous valuation		43,830,917
3. Town and State contributions previous year (limited by 99-1)		7,813,858
4. Interest on:		
(a) Town normal costs	\$	254,971
(b) Unfunded actuarial accrued liability		3,046,249
(c) Town and State contributions		<u>425,560</u>
(d) Net total: (a) + (b) - (c)	\$	2,875,660
5. Increase (decrease) in unfunded actuarial accrued liability from plan amendment		0
6. Increase (decrease) in unfunded actuarial accrued liability from assumptions changes		0
7. Expected unfunded actuarial accrued liability current year: 1. + 2. - 3. + 4. + 5. + 6.		42,561,364
8. Actual unfunded actuarial accrued liability current year		<u>51,031,759</u>
9. Actuarial gain (loss): 7. - 8.	\$	(8,470,395)

Table VIII

TOWN OF DAVIE POLICE PENSION PLAN

Amortization of Unfunded Liability

<u>Date</u>	<u>Total Unfunded Liability</u>	<u>Amortization Payment</u>
10/1/2023	\$ 51,031,759	\$ 5,951,732
10/1/2024	\$ 48,213,089	\$ 5,054,170
10/1/2025	\$ 46,158,464	\$ 5,054,170
10/1/2026	\$ 43,961,042	\$ 5,058,691
10/1/2043	\$ 0	\$ 0

Table IX

TOWN OF DAVIE POLICE PENSION PLAN

Accounting Disclosure Exhibit

<u>I. Number of Plan Participants</u>		<u>10/1/2022</u>	<u>10/1/2023</u>
1.	Retirees, disabled and beneficiaries receiving benefits	136	148
2.	Terminated plan participants entitled to but not yet receiving benefits	6	6
3.	DROP participants	36	38
4.	Active plan participants	<u>152</u>	<u>145</u>
5.	Total	330	337
<u>II. Accumulated Plan Benefits as of October 1, 2023</u>			
A.	<u>Statement of Accumulated Plan Benefits</u>		
1.	Actuarial present value of accumulated vested plan benefits		
a.	Participants currently receiving benefits	\$ 113,835,056	\$ 127,175,141
b.	Beneficiaries due deferred benefits	0	0
c.	DROP participants	50,427,298	58,052,007
d.	Others	<u>51,122,002</u>	<u>40,093,825</u>
e.	Total	\$ 215,384,356	\$ 225,320,973
2.	Actuarial present value of accumulated non-vested plan benefits	6,855,097	7,810,238
3.	Total actuarial present value of accumulated plan benefits	\$ 222,239,453	\$ 233,131,211

Table IX
(continued two)

B. Statement of Change in Accumulated Plan Benefits

	<u>10/1/2023</u>
1. Actuarial present value of accumulated plan benefits as of October 1, 2022	\$ 222,239,453
2. Increase (decrease) during year attributable to:	
a. Plan amendment	0
b. Actuarial assumptions and method changes	0
c. Benefits paid and contribution refunds	(9,780,536)
d. DROP benefits credited	(2,018,058)
e. Other, including benefits accumulated and increase for interest due to decrease in the discount period	<u>22,690,352</u>
f. Net increase	\$ 10,891,758
3. Actuarial present value of accumulated plan benefits as of October 1, 2023	\$ 233,131,211

C. Significant Matters Affecting Calculations

1. Assumed rate of return used in determining actuarial present values	6.95%
2. Plan amendments	None
3. Change in actuarial assumptions	See Table XI

D. Required Disclosure of Accumulated Plan Benefits at Assumed Rate of Return Applied by the Florida Retirement System, Currently 6.95%

	<u>10/1/2023</u>
1. Actuarial present value of accumulated vested plan benefits	
a. Participants currently receiving benefits	\$ 127,175,141
b. DROP participants	58,052,007
c. Others	<u>40,093,825</u>
d. Total	225,320,973
2. Actuarial present value of accumulated non-vested plan benefits	<u>7,810,238</u>
3. Total actuarial present value of accumulated plan benefits	\$ 233,131,211

Table IX
(continued three)

III. Schedule of Funding Progress (As required by GASB #25)

(1) Valuation Date	(2) Actuarial Value of Assets (AVA)	(3) Actuarial Accrued Liability (AAL) – FIL / EAN AAL	(4) Unfunded Actuarial Accrued Liability (UAAL) (3) - (2)	(5) Funded Ratio (2) / (3)	(6) Annual Covered Payroll	(7) UAAL as % of Payroll (4) / (6)
October 1, 1992	\$ 8,697	\$ 10,008	\$ 1,311	86.9%	\$ 4,146	31.6%
October 1, 1993	\$ 9,931	\$ 11,163	\$ 1,232	89.0%	\$ 4,467	27.6%
October 1, 1994	\$ 10,866	\$ 14,146	\$ 3,280	76.8%	\$ 4,195	78.2%
October 1, 1995	\$ 13,918	\$ 17,163	\$ 3,245	81.1%	\$ 5,307	61.1%
October 1, 1996	\$ 17,055	\$ 20,093	\$ 3,038	84.9%	\$ 5,637	53.9%
October 1, 1997	\$ 21,590	\$ 23,994	\$ 2,404	90.0%	\$ 5,339	45.0%
October 1, 1998	\$ 24,945	\$ 27,303	\$ 2,358	91.4%	\$ 6,360	37.1%
October 1, 1999	\$ 29,881	\$ 28,994	\$ (887)	103.1%	\$ 6,070	(14.6%)
October 1, 2000	\$ 32,886	\$ 35,159	\$ 2,273	93.5%	\$ 6,309	36.0%
October 1, 2001	\$ 32,325	\$ 34,530	\$ 2,205	93.6%	\$ 7,254	30.4%
October 1, 2002	\$ 31,302	\$ 33,558	\$ 2,256	93.3%	\$ 7,975	28.3%
(all figures above are based on Frozen Initial Liability – all figures below are based on Entry Age Normal Actuarial Accrued Liability)						
October 1, 2002	\$ 31,302	\$ 38,067	\$ 6,765	82.2%	\$ 7,975	84.8%
October 1, 2003	\$ 34,845	\$ 44,993	\$ 10,148	77.4%	\$ 8,994	112.8%
October 1, 2004	\$ 39,267	\$ 49,742	\$ 10,475	78.9%	\$ 9,105	115.0%
October 1, 2005	\$ 45,283	\$ 58,779	\$ 13,496	77.0%	\$ 10,976	123.0%
October 1, 2006	\$ 50,714	\$ 69,881	\$ 19,167	72.6%	\$ 11,999	159.7%
October 1, 2007	\$ 61,125	\$ 77,471	\$ 16,346	78.9%	\$ 10,591	154.3%
October 1, 2008	\$ 59,817	\$ 85,831	\$ 26,014	69.7%	\$ 11,177	232.7%
October 1, 2009	\$ 64,425	\$ 95,058	\$ 30,633	67.8%	\$ 12,106	253.0%
October 1, 2010	\$ 73,793	\$ 100,684	\$ 26,891	73.2%	\$ 11,618	231.5%
October 1, 2011	\$ 74,252	\$ 109,037	\$ 34,785	68.1%	\$ 13,006	267.5%
October 1, 2012	\$ 86,546	\$ 114,813	\$ 28,267	75.4%	\$ 13,014	217.2%
October 1, 2013	\$ 97,981	\$ 123,723	\$ 25,742	79.2%	\$ 13,917	185.0%
October 1, 2014	\$ 106,975	\$ 136,072	\$ 29,097	78.6%	\$ 13,412	216.9%
October 1, 2015	\$ 114,496	\$ 144,947	\$ 30,451	79.0%	\$ 14,068	216.5%
October 1, 2016	\$ 127,106	\$ 163,696	\$ 36,590	77.6%	\$ 15,279	239.5%
October 1, 2017	\$ 143,146	\$ 177,190	\$ 34,044	80.8%	\$ 15,388	221.2%
October 1, 2018	\$ 154,169	\$ 188,611	\$ 34,441	81.7%	\$ 15,236	226.0%
October 1, 2019	\$ 159,824	\$ 194,401	\$ 34,577	82.2%	\$ 15,565	222.1%
October 1, 2020	\$ 174,149	\$ 205,444	\$ 31,295	84.8%	\$ 15,491	202.0%
October 1, 2021	\$ 201,940	\$ 228,334	\$ 26,394	88.4%	\$ 15,654	168.6%
October 1, 2022	\$ 194,549	\$ 238,380	\$ 43,831	81.6%	\$ 15,476	283.2%
October 1, 2023	\$ 199,819	\$ 250,851	\$ 51,032	79.7%	\$ 15,410	331.2%

Table IX
(continued four)

IV. Schedule of Employer Contributions (As required by GASB #25)

Plan Year	Annual Required Contribution ¹	Percentage Contributed
(1)	(2)	(3)
1999	\$1,526,299	105%
2000	\$1,382,000	100%
2001	\$1,952,361	100%
2002	\$2,365,267	100%
2003	\$3,040,575	100%
2004	\$3,090,663	100%
2005	\$3,827,510	100%
2006	\$4,542,018	100%
2007	\$4,644,822	100%
2008	\$5,594,422	100%
2009	\$5,594,422	100%
2010	\$6,109,706	100%
2011	\$6,183,134	100%
2012	\$6,847,346	100%
2013	\$6,347,310	100%
2014	\$6,430,027 ²	100%
2015	\$6,361,217 ³	100%
2016	\$6,418,604 ⁴	100%
2017	\$7,272,120 ⁵	100%
2018	\$7,170,624 ⁶	100%
2019	\$7,174,869 ⁷	100%
2020	\$7,114,836 ⁸	100%
2021	\$7,087,833 ⁹	100%
2022	\$7,015,969 ¹⁰	100%
2023	\$8,901,037 ¹¹	100%

¹ Determined by the prior year's actuarial valuation

² Because the Town made the entire contribution for 2013/14 in one payment on 10/21/13, the Town's funding requirement was \$ 5,503,045, not \$ 5,742,964 as shown in prior year's report.

³ Because the Town made the entire contribution for 2014/15 in one payment on 10/22/14, the Town's funding requirement was \$ 5,389,887, not \$ 5,613,748 as shown in prior year's report.

⁴ Because the Town made the entire contribution for 2015/16 in one payment on 10/20/15, the Town's funding requirement was \$ 5,480,624, not \$ 5,713,188 as shown in prior year's report.

⁵ Because the Town made the entire contribution for 2016/17 in one payment on 11/3/16, the Town's funding requirement was \$ 6,317,120, not \$ 6,566,704 as shown in prior year's report.

⁶ Because the Town made the entire contribution for 2017/18 in one payment on 10/27/17, the Town's funding requirement was \$ 6,213,901, not \$ 6,465,208 as shown in prior year's report.

⁷ Because the Town made the entire contribution for 2018/19 in one payment on 10/31/18, the Town's funding requirement was \$ 5,998,562, not \$ 6,236,216 as shown in prior year's report.

⁸ Because the Town made the entire contribution for 2019/20 in one payment on 10/25/19, the Town's funding requirement was \$ 5,825,333, not \$ 6,063,328 as shown in prior year's report.

⁹ Because the Town made the entire contribution for 2020/21 in one payment on 11/3/20, the Town's funding requirement was \$ 5,808,873, not \$ 6,032,468 as shown in prior year's report.

¹⁰ Because the Town made the entire contribution for 2021/22 in one payment on 10/27/21, the Town's funding requirement was \$ 5,796,331, not \$ 6,015,004 as shown in prior year's report.

¹¹ Because the Town made the entire contribution for 2022/23 in one payment on 10/27/22, the Town's funding requirement was \$ 7,571,643, not \$ 7,857,292 as shown in prior year's report.

Table IX
(continued five)

V. Notes to Required Supplementary Information

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation:

Valuation Date	October 1, 2023
Actuarial cost method	Entry Age Normal Level Percent
Amortization method	Layered amortization
Remaining amortization period	20 years
Asset valuation method	See Table XI., Item 9.
Actuarial assumptions:	
Investment rate of return*	6.95%
Projected salary increases*	5.50%
Cost-of-living adjustments	2.0% per year with 130% cap and 5-year delay

* Includes inflation at 3.0%

Table IX
(continued six)

Accounting Disclosure Exhibit

VI. Revenues by Source and Expenses by Type

Plan Year	Revenues by Source				
	Employee Contributions	Town Contributions	State Contributions	Investment Income	Total
2023	\$ 2,551,129	\$ 6,566,449	\$ 1,247,409	\$ 15,705,234	\$ 26,070,221
2022	\$ 2,157,867	\$ 5,753,551	\$ 1,043,745	\$(33,177,542)	\$(24,222,379)
2021	\$ 1,744,971	\$ 6,210,000	\$ 1,000,965	\$ 37,489,590	\$ 46,445,526
2020	\$ 1,502,033	\$ 6,367,000	\$ 1,055,365	\$ 15,017,521	\$ 23,941,919
2019	\$ 1,455,642	\$ 6,625,000	\$ 1,051,508	\$ 2,835,798	\$ 11,967,948
2018	\$ 2,026,436	\$ 6,223,000	\$ 938,653	\$ 13,921,851	\$ 23,109,940
2017	\$ 2,104,437	\$ 6,472,000	\$ 905,664	\$ 16,082,657	\$ 25,564,758
2016	\$ 1,724,745	\$ 5,672,500	\$ 858,749	\$ 10,535,050	\$ 18,791,044
2015	\$ 1,385,542	\$ 5,797,600	\$ 784,261	\$ 844,588	\$ 8,811,991
2014	\$ 1,670,986	\$ 5,503,045	\$ 747,469	\$ 9,263,596	\$ 17,185,096

Plan Year	Expenses by Type			
	Benefits & DROP Payments	Expenses	Refunds	Total
2023	\$ 11,733,436	\$1,236,080	\$ 65,158	\$ 13,034,674
2022	\$ 11,138,192	\$1,466,868	\$ 84,787	\$ 12,689,847
2021	\$ 10,569,676	\$ 974,308	\$ 48,440	\$ 11,592,424
2020	\$ 9,591,523	\$ 986,993	\$ 87,815	\$ 10,666,331
2019	\$ 8,887,203	\$ 979,426	\$ 89,078	\$ 9,955,707
2018	\$ 7,862,170	\$ 916,489	\$ 106,404	\$ 8,885,063
2017	\$ 6,867,328	\$ 866,276	\$ 36,851	\$ 7,770,455
2016	\$ 6,637,331	\$ 653,395	\$ 43,243	\$ 6,680,574
2015	\$ 5,883,266	\$ 628,403	\$ 13,122	\$ 6,524,791
2014	\$ 5,400,475	\$ 746,285	\$ 31,616	\$ 6,178,376

Contributions were made in accordance with actuarially determined contribution requirements.

Table X

TOWN OF DAVIE POLICE PENSION PLAN

Outline of Principal Provisions of the Plan

1. Effective Date:

May 1, 1976. The most recent plan amendments recognized was Ordinances 2011- 18 and 2011-19. The ordinances were adopted on April 20, 2011.

2. Eligibility Requirements:

Effective August 6, 1981, all Police employees in the regular full-time service of the Town are eligible upon the attainment of age 18. Part-time employees who work less than 20 hours per week or five (5) months per year are excluded from participation in the plan.

3. Tier One and Tier Two Participants:

Police Officers hired prior to the creation of the Tier Two plan structure (April 20, 2011) are classified as Tier One Participants, otherwise, they are classified as Tier Two Participants.

4. Benefit Service:

Service of a member from employment date as a certified police officer through termination date measured in years and completed months. A member may buy back up to a total of four (4) years of prior military and sworn police service by paying the true actuarial cost of the increase service.

5. Basic Compensation:

Basic rate of salary paid to an employee including longevity pay and assignment pay but excluding overtime, bonuses and commissions. Payments for unused leave time (vacation, sick leave, etc.) are excluded. Effective October 1, 2001, basic compensation includes up to 70 hours of overtime pay per year. Effective October 1, 2003, basic compensation includes up to 120 hours of overtime pay per year. The limit on overtime hours increased to 150 hours effective October 1, 2006 and to 300 hours effective May 1, 2011.

6. Final Average Earnings (FAE):

Final Average Earnings is defined as the higher of (i) average monthly rate of basic compensation during the final thirty-six (36) successive calendar months of Benefit Service, or (ii) average monthly rate of basic compensation of the best five (5) of the last ten (10) years of Benefit Service, preceding actual retirement or termination.

7. Employee Contributions:

9.0% of basic compensation.

Table X
(continued two)

8. Accrued Benefit

For Tier One Participants:

The monthly accrued benefit is equal to 3.0% times FAE multiplied by the years and months of Benefit Service for the first 10 years, plus 4.0% times FAE for the next five (5) years of Benefit Service, plus 5.0% times FAE for the next five (5) years of Benefit Service, plus 2.0% of FAE times the next 10 years of Benefit Service. The maximum benefit is limited to 95% of FAE. However, after 47½ years of Benefit Service, benefits shall recommence at a rate of 2.0% of FAE per year.

For Tier Two Participants:

The monthly accrued benefit is equal to 3.0% times FAE multiplied by the years and months of Benefit Service for the first 20 years, plus 2.0% times FAE for each subsequent year of Benefit Service, subject to a maximum benefit of 80% of FAE. However, after 40 years of Benefit Service, benefits shall recommence at a rate of 2.0% of FAE per year.

9. Normal Retirement Date:

The first of the month coincident with or next following the earlier of (i) completion of 20 years of Benefit Service or (ii) the attainment of age 55. For a vested terminated member with at least 15 years of Benefit Service, full deferred accrued benefit would be payable on the first of the month coincident with or next following the anniversary of the date that the member would have completed 20 years of Benefit Service.

10. Amount of Normal Retirement Income:

The monthly amount of Accrued Benefit, payable in the normal form of payment to a participant on his or her Normal Retirement Date.

11. Early Retirement Date:

Attainment of age 50 and completion of 10 years of Benefit Service.

12. Amount of Early Retirement Income:

The monthly amount of Accrued Benefit, payable in the normal form of payment to a participant on his Early Retirement Date.

The benefit will be reduced for early payment so that it is actuarially equivalent to the normal retirement benefit. Effective May 1, 2011, the early retirement reduction will be 3.0% per year for each year prior to Normal Retirement Date.

The participant also has the option of deferring the commencement of his monthly benefit to his Normal Retirement Date, the earlier of the date he would have attained 20 years of Benefit Service (provided he has completed 15 years of actual Benefit Service) or age 55. In such case there would be no actuarial reduction to his monthly benefit.

D

Table X
(continued three)

13. Delayed Retirement Date:

A member may continue to work beyond his Normal Retirement Date and retire on any subsequent first day of the month.

14. Amount of Delayed Retirement Income:

The monthly amount of Accrued Benefit, payable in the normal form of payment to a participant who retires on his Delayed Retirement Date.

15. Benefits on Termination of Service:

In the event of termination of service prior to Normal Retirement Date, for reasons other than death, early retirement or disability, a monthly benefit equal to Accrued Benefit times the vested percentage below will be payable commencing on Normal Retirement Date.

In lieu of this deferred benefit, a participant may elect to receive the return of his employee contributions.

<u>Years of Benefit Service With the Town</u>	<u>Vested Percentage</u>
Less than 10	0%
10 or more	100%

16. Permissive Service Credit Purchases:

- a. A vested active participant shall be permitted to purchase permissive service credit in the form of an increased benefit accrual factor, which may be purchased in one percent (1.0%) increments above the participant's accrued benefit percentage, in an amount not to exceed twenty percent (20%) of FAE. The maximum amount of benefit accrual will remain at ninety-five percent (95%) of FAE for Tier One participants and eighty percent (80%) for Tier Two participants. The purchase cost would be the full actuarial cost of the increased benefit accrual multiplier and must be paid in full prior to the granting of the increased benefits.
- b. A vested active participant shall be permitted to purchase permissive service credit expressed as an earlier normal retirement date. Under such proposal, a participant would be able to receive an unreduced normal retirement benefit as early as upon the completion of 15 years of Benefit Service (instead of 20), if a purchase of the maximum of five (5) years of permissive service credit were made. However, the participant would not accrue a higher multiplier, but would be permitted to begin receiving an unreduced retirement benefit with fewer years of actual service. The purchase cost would be the full actuarial cost of the earlier commencement of retirement benefits and must be paid in full prior to the granting of the increased benefits.

Table X
(continued four)

- c. The cost of either purchase may be made either in one lump sum or made in payroll deductions installments for a period not to exceed five (5) years, with 7.0% per annum interest added, and must be completed prior to commencement of any enhanced benefit.

17. Disability Retirement Benefits:

For a member totally and permanently disabled where the disability is service-connected, the monthly benefit shall be equal to the greater of (i) 66-2/3% of such member's base pay at time of disability, less any benefits payable by Federal Old Age, Survivors and Disability Insurance, Worker's Compensation benefits or other disability benefits payable from Broward County or the Town because of disability, age or unemployment. Effective May 1, 2011, the benefit after offset shall in no case be less than the member's Accrued Benefit at date of disability or (ii) forty-two percent (42%) of FAE payable as a ten year certain and life annuity. The monthly non-service connected benefit is the greater of \$100 or 1.5% times FAE multiplied by the number of years of Benefit Service, less any of the offset amounts described above. Effective May 1, 2011, the minimum non-service connected disability benefit shall be the greater of the Accrued Benefit or twenty-five percent (25%) of FAE, payable as a ten year certain and life annuity. In no event will the service-connected benefit be less than the non-service connected benefit. Benefits shall be payable starting six (6) months after termination of service for disability, and will be payable for life or until recovery.

18. Death Benefits:

a. Prior to retirement: If death is non-service connected or member had no spouse to whom he had been married to for at least one (1) year prior to death, the death benefit shall be the return of accumulated employee contributions plus prior plan benefits, if any. However, if a member had at least 10 years of Benefit Service at the time of death, then his or her beneficiary will be entitled to the benefits otherwise payable to the member at Early or Normal Retirement Date.

If death is service-connected and member has an eligible spouse to whom he had been married for at least one (1) year prior to death, such spouse shall be entitled to a monthly annuity equal to the greater of (i) 50% of base pay at his date of death, or (ii) Accrued Benefit payable to the eligible spouse on the date of what would have been the member's Normal Retirement Date. Such pension shall continue to the spouse until the spouse's death, with a guarantee that such benefits will at least equal the accumulated contributions at his date of death. If a member had no eligible spouse but had at least 10 years of Benefit Service at the time of death, then his or her beneficiary will be entitled to the benefits otherwise payable to the member at Early or Normal Retirement Date.

b. After retirement: If a member had elected a joint and survivor or a 10 year certain and life optional form of payment, the adjusted monthly benefit will be continued to the beneficiary until the appropriate annuity ending date. Total benefits payable the member and his beneficiary will not be less than the amount of accumulated contributions at date of retirement.

Table X
(continued five)

19. Normal Form of Retirement Income:

For a married participant, the normal form of retirement income will be monthly payments for life of the member, with benefit continuing to spouse after member's death for one (1) year and 60% of benefit payable to spouse thereafter. The benefit amount is not reduced due to this form of payment. The participant may also elect to receive the benefit as an unreduced ten year certain and life annuity.

For an unmarried participant, the normal form of payment will be an unreduced ten year certain and life annuity.

20. Optional Forms of Retirement Income:

The following optional forms of retirement income may be elected by a member without presenting evidence of good health, if elected at least one year prior to his date of retirement:

Option 1 A single life annuity payable during the lifetime of the participant only.

Option 2 A retirement annuity payable to the member during the joint lifetime of the member and a joint pensioner designated by the member, and following the death of either of them, 50%, 66-2/3%, 75%, or 100% depending on the retiree's election, of such smaller monthly amount payable to the survivor for the lifetime of the survivor.

Option 3 A monthly annuity payable to the member for ten years certain and life thereafter.

21. Deferred Retirement Option Plan (DROP):

The DROP is available only if the member makes an irrevocable election to participate after meeting the eligibility for Normal Retirement Benefit. For members who entered the DROP before October 1, 2020, there is a five (5) year maximum participation period, after which the employee is deemed separated from the Town. For members who entered the DROP on or after October 1, 2020, there is a six (6) year maximum participation period, after which the employee is deemed separated from the Town. In no event can a member who enters the DROP exceed 30 years of total Benefit Service plus years of DROP participation. If the member dies or becomes disabled during the DROP period, the member will have presumed to have retired on a normal retirement on the day prior to disability or death.

22. Cost of Living Adjustments (COLA):

An annual COLA will be provided to retirees and beneficiaries. The amount of the COLA will be 2.0% per year. For recipients who retired prior to October 1, 1997, the monthly benefit after the yearly COLA will not exceed 115% of the original monthly benefit prior to any COLA. For post October 1, 1997 retirees, the limit for future monthly benefits after COLA will be 130% of the original benefit amounts prior to any COLA. The first annual COLA will commence on the fifth anniversary of retirement, but no earlier than November 1, 2004.

23. Changes from October 1, 2022 Valuation:

None.

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Table XI

TOWN OF DAVIE POLICE PENSION PLAN

Actuarial Assumptions and Actuarial Cost Methods

1. Mortality:

Pre-Retirement:

Female Non-Disabled: PUB-2010 Headcount Weighted Safety Employee Female Table, set forward 1 year, Scale MP-2018

Male Non-Disabled: PUB-2010 Headcount Weighted Safety Below Median Employee Male Table, set forward 1 year, scale MP-2018

Post-Retirement:

Female Non-Disabled: PUB-2010 Headcount Weighted Safety Healthy Retiree Female Table, set forward 1 year, Scale MP-2018

Male Non-Disabled: PUB-2010 Headcount Weighted Safety Below Median Healthy Retiree Male Table, set forward 1 year, Scale MP-2018

Pre-Retirement & Post-Retirement:

Female Disabled: 80% PUB-2010 Headcount Weighted General Disabled Retiree Female Table; 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Female Table, Scale MP-2018

Male Disabled: 80% PUB-2010 Headcount Weighted General Disabled Retiree Male Table; 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Male Table, Scale MP-2018

2. Interest to be Earned by Fund:

6.95%, compounded annually, net of investment expenses.

3. Allowances for Expenses or Contingencies:

Estimated by net of investment fees paid during previous year.

4. Employee Withdrawal Rates:

Withdrawal rates were used in accordance with tables per the following illustrative example:

<u>Age</u>	<u>Withdrawal Rates Per 100 Employees</u>	
	<u>Male</u>	<u>Female</u>
20	8.4	14.0
25	5.6	8.4
30	3.9	5.6
35	2.8	3.9
40	1.7	2.8
45	1.1	1.7
50	0.2	1.1
55 & over	0.0	0.0

Table XI
(continued two)

5. Assumptions on Pensionable Overtime Hours

Each member is assumed to continue to work the same number of overtime hours as in the most recent plan year, subject to the 300 hours maximum, for each future year.

6. Disability Rates:

The 1985 Disability Study - Class 1 with separate male and female rates were used. 75% of disabilities assumed to be service incurred, 25% assumed to be non-service incurred.

7. Salary Increase Factors:

Current salaries were assumed to increase at a rate of 5.5% per year until retirement.

8. Rates of Retirement:

The following are the retirement rates assumed for the participants eligible for retirement:

Participants with 20 or more years of Credited Service		Participants who attained age 55 with 10 or more years of Credited Service
Years of Credited Service	Percentage Retiring	
20	65%	100 % retiring upon eligibility
21-24	50%	
25 and over	100%	

However, active participants eligible for retirement that have less than 20 years of Benefit Service as of the valuation date are assumed to have a minimum of one year future service.

9. Asset Valuation Method:

The actuarial value of assets is determined by smoothing the differences between actual investment earnings and assumed investment return over four (4) years. This method was adopted effective October 1, 2022 with no phase-in. The resulting value would then be limited to between 80% and 120% of market value.

10. Actuarial Cost Method:

Normal Retirement, Termination, Disability and Pre-Retirement Death Benefits: Entry Actuarial Cost Method.



Table XI
(continued three)

Under this method the normal cost for each active employee is the amount which is calculated to be a level percentage of pay that would be required annually from his date of hire to his retirement age to fund his estimated benefits, assuming the plan had always been in effect. The normal cost for the plan is the sum of the individual normal costs for all active participants. The actuarial accrued liability as of any valuation date for each active employee or inactive employee who is eligible to receive benefits under the plan is the excess of the actuarial present value of estimated future benefits over the actuarial present value of current and future normal costs. The unfunded actuarial accrued liability as of any valuation date is the excess of the actuarial accrued liability over the actuarial value of assets of the plan.

11. Marriage Assumptions:

100% of active participants were assumed married, with husbands three (3) years older than wives.

12. Valuation of Normal Form of Payment:

The normal form of payment is valued as an unreduced joint and 60% survivor annuity benefit for married members. For unmarried members, the normal form of payment is valued as a ten year certain and life annuity.

13. Changes from October 1, 2022 Actuarial Valuation

None.

Table XII

TOWN OF DAVIE POLICE PENSION PLAN

Distribution of Active Participants by Age and Service Groups
as of October 1, 2023

Years of Credited Service

<u>Age</u>	<u>0 - 4</u>	<u>5 - 9</u>	<u>10 - 14</u>	<u>15 - 19</u>	<u>20 - 24</u>	<u>25 - 29</u>	<u>30 & Over</u>	<u>Total</u>
Under 25	5	5
25 - 29	26	4	30
30 - 34	9	19	7	35
35 - 39	5	8	8	6	.	.	.	27
40 - 44	4	6	3	11	.	.	.	24
45 - 49	.	.	3	10	2	.	.	15
50 - 54	1	1	1	2	.	.	.	5
55 - 59	.	2	.	1	.	.	.	3
60 - 64	1	1
65 & Over	0
TOTAL	<u>51</u>	<u>40</u>	<u>22</u>	<u>30</u>	<u>2</u>	<u>.</u>	<u>.</u>	<u>145</u>

10/01/2022

10/01/2023

Average Attained Age

37.20 years

36.56 years

Average Pay

\$101,816

\$106,273

Percent Female

16.45%

18.62%

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Table XIII

TOWN OF DAVIE POLICE PENSION PLAN

Reconciliation of Participant Data

A. Active Participants

1. Active participants previous year	152
2. Retired during year	(1)
3. Entered DROP during year	(13)
4. Died during year	0
5. Disabled during year	(0)
6. Terminated vested during year	(0)
7. Terminated non-vested during period	(3)
8. New active participants	10
9. Rehired	0
10. Active participants current year	<u>145</u>

B. Participants Receiving Benefits

1. Participants receiving benefits previous year	136
2. New retired participants	1
3. New terminated vested receiving benefits	0
4. New disabled receiving benefits	0
5. New beneficiaries receiving benefits	0
6. DROP participants exited and retired	11
7. Died or ceased payment during year	(0)
8. Retired or terminated vested receiving benefits current year	<u>148</u>

C. Terminated Participants Entitled to Future Benefits

1. Terminated participants entitled to future benefits previous year	6
2. Died during year	0
3. Rehired	0
4. Commenced receiving benefits during year	0
5. New terminated participants	0
6. Terminated participants entitled to future benefits current year	<u>6</u>

D. DROP Participants

1. DROP participants previous year	36
2. New entrants during year	13
3. Died during year	0
4. Exited and retired during year	(11)
5. DROP participants current year	<u>38</u>

Table XIV

TOWN OF DAVIE POLICE PENSION PLAN

**Statistics for Participants Entitled to Deferred Vested Benefits
and Participants Receiving Payments**

A. Entitled to Deferred Benefits

<u>Current Age Group</u>	<u>Count</u>	<u>Total Annual Benefit</u>	<u>Average Annual Benefit</u>
Less than 40	2	\$ 38,952	\$ 19,476
40 - 44	0	0	0
45 - 49	3	88,414	29,471
50 - 54	1	36,440	36,440
55 - 59	0	0	0
60 - 64	0	0	0
65 & over	<u>0</u>	<u>0</u>	<u>0</u>
TOTAL	6	\$ 163,806	\$ 27,301

B. Receiving Benefits (includes DROP participants)

<u>Current Age Group</u>	<u>Count</u>	<u>Total Annual Benefit</u>	<u>Average Annual Benefit</u>
Less than 40	4	\$ 56,143	\$ 14,036
40 - 44	6	605,263	100,877
45 - 49	22	2,156,846	98,038
50 - 54	32	3,047,222	95,226
55 - 59	45	3,734,785	82,995
60 - 64	29	1,935,722	66,749
65 & over	<u>48</u>	<u>2,644,297</u>	<u>55,090</u>
TOTAL	186	\$14,180,277	\$ 76,238

Table XV

TOWN OF DAVIE POLICE PENSION PLAN

Recent Investment, Salary Increase, and Turnover Experience

A. Investment Return

Comparison of actual to assumed investment return for the last five years:

Year Ended	Rate of Return		Assumed
	Market Value	Actuarial Value	
09/30/2023	9.1%	3.5%	6.95%
09/30/2022	(15.8%)	(2.4%)	6.95%
09/30/2021	20.3%	17.1%	7.40%
09/30/2020	9.1%	9.6%	7.50%
09/30/2019	2.3%	3.7%	7.50%
Last 3 Yrs.	3.4%	5.8%	7.10%
Last 5 Yrs.	4.3%	6.1%	7.26%

B. Recent Salary Increase and Turnover Experience

Year Ended	Salary Increase		Ratio of Actual Turnover to Expected
	Actual	Assumed	
09/30/2023	9.6%	5.50%	0.70
09/30/2022	5.2%	5.50%	0.78
09/30/2021	5.6%	5.50%	0.23
09/30/2020	3.5%	5.50%	1.16
09/30/2019	7.7%	5.50%	1.09
Last 3 Yrs.	6.8%	5.50%	0.57
Last 5 Yrs.	6.3%	5.50%	0.79

Table XVI

TOWN OF DAVIE POLICE PENSION PLAN

State Required Exhibit

	10/1/2022	10/1/2023
A. <u>Participant Data</u>		
1. Active participants	152	145
2. Retired participants and beneficiaries receiving benefits	130	142
3. Beneficiaries due deferred benefits	0	0
4. DROP participants	36	38
5. Disabled participants receiving benefits	6	6
6. Terminated vested participants	6	6
7. Total participants	330	337
8. Annual payroll of active participants	\$ 15,475,959	\$ 15,409,589
9. Annual benefits payable to those currently receiving benefits	9,075,256	10,188,611
10. Annual benefits payable to beneficiaries due deferred benefits	0	0
11. Annual benefits payable to terminated deferred benefits	163,806	163,806
12. Annual benefits payable to DROP participants	\$ 3,484,003	\$ 3,991,667
B. <u>Value of Assets</u>		
1. Actuarial value	\$ 194,549,419	\$ 199,818,939
2. Market value	\$ 170,550,085	\$ 183,585,632
C. <u>Liabilities</u>		
1. Actuarial present value of future expected benefit payments for active members		
a. Retirement benefits	\$ 106,517,349	\$ 99,363,096
b. Vesting benefits	3,459,736	3,772,813
c. Death benefits	562,416	565,949
d. Disability benefits	1,538,358	1,571,247
e. Total	\$ 112,077,859	\$ 105,273,105
2. Actuarial present value of future expected benefit payments for terminated vested members	\$ 1,527,327	\$ 1,637,942
3. Actuarial present value of future expected benefit payments for beneficiaries due deferred benefits	0	0
4. Actuarial present value of future expected benefit payments for those receiving benefits		
a. Service retired	\$ 105,648,127	\$ 119,063,580
b. DROP participants	50,427,298	58,052,007
c. Disability retired	3,337,375	3,310,580
d. Beneficiaries	4,849,554	4,800,981
e. Total	\$ 164,262,354	\$ 185,227,1

Table XVI
(continued two)

	<u>10/1/2022</u>	<u>10/1/2023</u>
5. Miscellaneous (refund unpaid)	\$ 0	\$ 0
6. Total actuarial present value of future expected benefit payments	\$ 277,867,540	\$ 292,138,195
7. Actuarial accrued liabilities	\$ 238,380,336	\$ 250,850,698
8. Unfunded actuarial accrued liabilities	\$ 43,830,917	\$ 51,031,759
 D. <u>Statement of Accumulated Plan Benefits</u>		
1. Actuarial present value of accumulated vested plan benefits		
a. Participants currently receiving benefits	\$ 113,835,056	\$ 127,175,141
b. Beneficiaries due deferred benefits	0	0
b. DROP participants	50,427,298	58,052,007
c. Other participants	<u>51,122,002</u>	<u>40,093,825</u>
d. Total	\$ 215,384,356	\$ 225,320,973
2. Actuarial present value of accumulated non-vested plan benefits	<u>6,855,097</u>	<u>7,810,238</u>
3. Total actuarial present value of accumulated plan benefits	\$ 222,239,453	\$ 233,131,211
 E. <u>Statement of Change in Accumulated Plan Benefits</u>		
1. Actuarial present value of accumulated plan benefits as of October 1, 2022	\$ 222,239,453	
2. Increase (decrease) during year attributable to:		
a. Plan amendment	0	
b. Actuarial assumptions and methods changes	0	
c. Benefits paid and contribution refunds	(9,780,536)	
d. DROP benefits credited	(2,018,058)	
e. Other, including benefits accumulated and increase for interest due to decrease in the discount period	<u>22,690,352</u>	
f. Net increase (decrease)	10,891,758	
3. Actuarial present value of accumulated plan benefits as of October 1, 2023	\$ 233,131,211	

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Table XVI
(continued three)

		<u>10/1/2022</u>	<u>10/1/2023</u>
F.	<u>Pension Cost</u>		
1.	Total normal cost including expenses	\$ 5,061,481	\$ 4,999,897
2.	Expected member contribution	1,392,836	1,386,863
3.	Item 2. as percentage of payroll	<u>9.0%</u>	<u>9.0%</u>
4.	Net employer normal cost	\$ 3,668,645	\$ 3,613,034
5.	Payment required to amortize unfunded liability	<u>4,800,187</u>	<u>5,951,732</u>
6.	Total employer required contribution (including interest)	\$ 8,901,037	\$ 10,048,337
7.	Item 6. as a percentage of payroll	57.5%	65.2%
8.	State contributions	\$ 1,043,745	\$ 1,247,409
9.	Item 8. as a percentage of payroll	6.7%	8.1%
10.	Net amount payable by Town	\$ 7,857,292	\$ 8,800,928
11.	Item 10. as a percentage of payroll	50.8%	57.1%
G.	<u>Past Contributions</u>		
1.	Total contribution required	\$ 10,293,873	\$ 11,435,200
2.	Actual contributions made:		
a.	Employees	\$ 2,157,867	N/A
b.	Town	5,753,551*	N/A
c.	State	<u>1,043,745</u>	<u>N/A</u>
d.	Total	\$ 8,955,163	N/A
H.	<u>Net Actuarial Gain (Loss)</u>	\$ (35,446,163)	\$ (8,470,395)
I.	<u>Disclosure of Following Items:</u>		
1.	Actuarial present value of future salaries - attained age	\$ 127,870,609	\$ 135,749,586
2.	Actuarial present value of future employee contributions - attained age	\$ 11,508,355	\$ 12,217,463
3.	Actuarial present value of future contributions from other sources	N/A	N/A
4.	Amount of active members' accumulated contributions	\$ 10,455,229	\$ 9,673,241
5.	Actuarial present value of future salaries and future benefits at entry age	Not provided by software	
6.	Actuarial present value of future employee contributions at entry age	Not provided by software	

* Because the Town made the entire contribution for 2022/23 in one payment on 10/27/22, the Town's funding requirement was \$ 7,571,643, not \$ 7,857,292 as shown in prior year's report.

Table XVI
(continued four)

J. Unfunded Actuarial Accrued Liabilities

Description and Amount of Original Liability	Remaining Amortization Period	Unamortized Amount as of Valuation Date	Amortization Payment
10/01/1994 Plan Amendment	1 years	897,562	897,562
10/01/1996 Assumption Change	3 years	(12,700)	(4,521)
10/01/1997 Plan Amendment	4 years	(252,296)	(69,566)
10/01/1999 Assumption Change	6 years	(1,617,494)	(316,802)
10/01/2000 Plan Amendment	7 years	1,643,861	284,705
10/01/2002 Method Change	9 years	2,419,145	346,439
10/01/2003 Actuarial Loss	10 years	802,788	106,625
10/01/2003 Plan Amendment	10 years	1,134,277	150,652
10/01/2004 Actuarial Loss	11 years	269,634	33,537
10/01/2005 Actuarial Loss	12 years	1,217,643	142,960
10/01/2005 Plan Amendment	10 years	653,509	86,798
10/01/2006 Actuarial Loss	13 years	1,966,631	219,395
10/01/2006 Plan Amendment	13 years	1,622,904	181,049
10/01/2006 Ch. 185 Plan Amendment	13 years	174,866	19,508
10/01/2007 Actuarial (Gain)	14 years	(157,864)	(16,827)
10/01/2007 Asset Method Change	14 years	(1,601,085)	(170,666)
10/01/2008 Actuarial Loss	15 years	6,369,879	651,867
10/01/2009 Actuarial Loss	16 years	2,779,842	274,234
10/01/2009 Assumption Change	16 years	489,669	48,306
10/01/2010 Actuarial (Gain)	17 years	(2,189,792)	(208,989)
10/01/2010 Plan Amendment	17 years	250,462	23,904
10/01/2011 Actuarial Loss	18 years	5,772,911	534,671
10/01/2012 Actuarial (Gain)	18 years	(4,176,176)	(386,786)
10/01/2013 Actuarial (Gain)	18 years	(1,323,918)	(122,618)
10/01/2014 Actuarial (Gain)	18 years	(871,044)	(80,674)
10/01/2014 Assumption Change	11 years	3,433,285	427,034
10/01/2015 Actuarial (Gain)	18 years	1,763,601	163,340
10/01/2016 Actuarial (Gain)	18 years	1,270,365	117,658
10/01/2016 Assumption Change	13 years	4,053,663	452,221
10/01/2017 Actuarial (Gain)	18 years	(3,814,469)	(353,286)
10/01/2017 Assumption Change	14 years	2,478,189	264,160
10/01/2018 Actuarial Loss	18 years	1,129,446	104,606
10/01/2019 Actuarial Loss	18 years	7,212,635	668,014
10/01/2019 Assumption Change	16 years	(5,523,786)	(544,927)
10/01/2020 Actuarial Gain	18 years	(3,249,535)	(300,963)
10/01/2020 Assumption Change	17 years	1,964,486	187,486
10/01/2021 Actuarial Gain	18 years	(13,545,018)	(1,254,502)
10/01/2021 Assumption Change	18 years	10,630,982	984,612
10/01/2022 Actuarial Loss	19 years	34,621,966	3,120,364
10/01/2022 AVA Method Change	19 years	(16,127,660)	(1,453,533)
10/01/2023 Actuarial Loss	20 years	8,470,395	744,685
TOTAL:		<u>\$ 51,031,759</u>	<u>\$ 5,951,732</u>

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Table XVI
(continued five)

This actuarial valuation and/or cost determination 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.



Donald A. DuLaney, Jr. A.S.A., E.A.
Senior Consulting Actuary

2/9/2024

Date

23-04191

Enrollment Number

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