Gabriel Roeder Smith & Company
Consultants & Actuaries

CITY OF WARWICK, RHODE ISLAND POLICE II PENSION FUND

ACTUARIAL VALUATION AS OF

JULY 1, 2015

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DISCUSSION

I. Purpose and Summary

This report presents the results of our July 1, 2015 actuarial valuation of the City of Warwick, Rhode Island Police II Pension Fund. The valuation was performed at the request of the City of Warwick for purposes of determining the employer and member contribution rates for the City's fiscal year beginning July 1, 2016.

The total contribution level for the 2016-2017 fiscal year is 42.63% of covered earnings as compared to 43.68% of covered earnings determined by the previous valuation. In accordance with the City's ordinances, two-thirds of the cost (or 28.42% of earnings) will be met by the City, with the remaining one-third (or 14.21%) contributed by covered active members.

The member contribution rate of 14.21% is a blended rate between Tier I and Tier II members were the difference between the two is a constant 3.77%. Based on this difference and the size of the current population of active members, that produces a member contribution rate of 14.75% for Tier I members and 10.98% for Tier II members.

The development of the valuation results is shown in Tables 1 through 9 and is described in more detail on the following pages.

II. Membership Data

The City furnished data for active and retired members as of December 31, 2014. The data was projected to July 1, 2015 for valuation purposes reflecting anticipated age, salary and benefit increases, with adjustment due to data questions response. Although we did not audit this data, we did review it for reasonableness and consistency with the data collected for the previous valuation (prepared as of July 1, 2014). Table 4 provides a distribution by age and service for active members. There were three inactive, non-retired member entitled to a future retirement benefit or a future refund.

III. Plan Provisions

A summary of the principal plan provisions recognized for purposes of the valuation is provided in Table 9. There were no changes to this plan adopted since the last actuarial valuation.

IV. Assets

The City of Warwick furnished audited financial statements for the fiscal years ending June 30, 2015. Tables 3a, 3b, and 3c provide information about the composition of plan assets and the development of valuation assets.

The asset value used in the determination of the annual contribution level is set equal to the market value of assets, adjusted to phase in the difference between actual and expected investment return over five years, at 20% per year. As shown in Table 3c, the market value of assets on June 30, 2015 was $178,425,137 while the valuation assets were $175,253,154, or 98.2% of the market value.

As shown in Table 3b, the dollar-weighted rate of return on the market value of assets for FY 2015 was 2.31%. This return is net of all investment and administrative expenses.

V. Actuarial Methods and Assumptions

The results of the actuarial valuation are dependent on the actuarial assumptions used. Actual results can and almost certainly will differ, as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities, calculated contribution rates and funding periods.

There were no changes to the assumptions and methods since the last actuarial valuation.
We believe the assumptions are internally consistent and are reasonable, based on the actual experience of the City of Warwick, Rhode Island Police II Pension Fund.

VI. Funding Policy

The plan is funded on an actuarially determined basis in accordance with the City's pension ordinances. The contribution amount determined by the July 1, 2015 valuation is projected with assumed base pay increases (3.50%) to determine the statutory contribution level for the 2016-2017 fiscal year.

VIII. Analysis of Changes

The plan experienced an actuarial gain of $1,854,046 over last year, which is relatively small in comparison to the size of the liabilities. The largest source of the gain was favorable experience on the actuarial value of assets.

The funded ratio increased from 87.6% to 89.1%. The funded status measure alone is not appropriate for assessing the need for future contributions. Also, the funded status is not appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations

The following shows a reconciliation of the contribution rate from the prior valuation to the new rate set by this valuation.

Contribution rate set by prior valuation	43.68%
Demographic and payroll changes	(0.01)
Asset loss/(gain)	(1.04)
Contribution rate set by current valuation	42.63%

VIII. Future Expectations

With the Tier II benefit provisions for new hires, the normal cost (and ultimately the total contribution requirement) should being to trend slowly lower over the next decade as members in Tier I or in the Police I Pension Fund who terminate or retire are replaced by members in Tier II. We commend the City for continuing to meet its actuarial contribution requirements as dictated by the approved funding policy. If the City continues to meet those obligations, we anticipate the funded ratio will increase consistently over the next 24 years.

IX. Certification

We certify that the information included herein and contained in this Actuarial Valuation Report is accurate and fairly presents the actuarial position of the City of Warwick, Rhode Island Police II Pension Fund as of the valuation date.

All of our work conforms with generally accepted actuarial principles and practices, and to the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, our calculations also comply with the requirements of, where applicable, the Internal Revenue Code, ERISA, and the Statements of the Governmental Accounting Standards Board.

The undersigned are independent actuaries and consultants. Joseph P. Newton and Paul T. Wood are Members of the American Academy of Actuaries, and meet the Qualification Standards of the American Academy of Actuaries. Finally, both of the undersigned are experienced in performing valuations for large public retirement systems.

We are available to answer any questions in connection with this valuation of the plan or the information presented in this report.

Joseph P. Newton, FSA, EA, MAAA	Paul T. Wood, ASA, FCA, MAAA
Senior Consultant	Consultant

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TABLES

Valuation Results

			July 1, 2015	July 1, 2014
A.	**Membership Data**			
	1.	Active members		
		a. Number	161	166
		b. Expected covered payroll for fiscal year beginning on valuation date	$ 12,764,469	$ 12,212,862
		c. Average pay	$ 79,282	$ 73,571
		d. Average attained age	41.2	40.3
		e. Average past service	14.3	13.3
	2.	Retired members and beneficiaries		
		a. Number	166	161
		b. Average benefit	$ 48,696	$ 47,710
		c. Average attained age	58.3	57.5
	3.	Inactive members (Vesting)		
		a. Number	2	3
		b. Average benefit	$ 25,281	$ 21,595
		c. Average attained age	44.0	43.9
B.	**Liabilities**			
	1.	Actuarial accrued liability		
		a. Active members	$ 68,919,490	$ 62,963,860
		b. Retired members and beneficiaries	126,972,487	122,177,054
		c. Inactive members	817,742	1,016,819
		d. Total	$ 196,709,719	$ 186,157,733
	2.	Valuation assets	$ 175,253,154	$ 163,070,867
	3.	Unfunded actuarial accrued liability [(1)(d)-(2)]	$ 21,456,565	$ 23,086,866
	4.	Funded Ratio [(2)/(1)(d)]	89.09%	87.60%
C.	**Determination of City Contribution**			
	1.	Normal cost	$ 4,056,963	$ 3,880,639
	2.	Amortization charges	$ 1,385,106	$ 1,453,905
	3.	Total annual contribution	$ 5,442,069	$ 5,334,544
	4.	Annual contribution as a percentage of covered payroll [(3) / A(1)(b)]	42.63%	43.68%
	5.	Annual City contribution as a percentage of payroll [2/3 x (4)]	28.42%	29.12%
	6.	Member contribution rate [(4) - (5)]	14.21%	14.56%
		a. Tier I Rate	14.75%	15.15%
		b. Tier II Rate	10.98%	11.38%

Summary of Amortization Bases

Date Established	Purpose	Initial Amount	Remaining Balance as of July 1, 2015	2015 - 2016 Amortization Payment *	Years Remaining as of July 1, 2015
7/14	Fresh Start, Offsetting of Prior Bases	$ 23,086,866	$ 23,310,611	$ 1,504,792	24
7/15	Experience (Gain)/Loss	(1,854,046)	(1,854,046)	(119,686)	24
	Total		$ 21,456,565	$ 1,385,106	

* Assuming payment made at the middle of the year.

Asset Information
Composition of Fund as of June 30, 2015

		Market Value	Percentage of Total
1.	Cash and equivalents	$ 94,683	0.1%
2.	Equities, including index funds	88,920,643	49.8%
3.	Fixed income investments	89,565,885	50.2%
4.	Receivables less payables	(166,074)	-0.1%
5.	Total	$178,415,137	100.0%

Asset Information
Asset Reconciliation and Expected Returns

		FY 2012	FY 2013	FY 2014	FY 2015
1.	Beginning of year market value	142,030,000	140,550,250	154,786,889	176,405,576
2.	Contributions				
a.	City	2,750,667	3,165,799	3,322,236	3,828,534
b.	Member	1,375,334	1,582,900	1,661,118	1,914,267
c.	Total	4,126,001	4,748,699	4,983,354	5,742,801
3.	Benefits paid	(6,566,137)	(7,220,137)	(7,488,066)	(7,768,947)
4.	Net return	960,386	16,708,077	24,123,399	4,035,707
5.	End of year market value	140,550,250	154,786,889	176,405,576	178,415,137
6.	Net market return	0.68%	11.99%	15.71%	2.30%
7.	Expected market value				
a.	Beginning of year	142,030,000	140,550,250	154,786,889	176,405,576
b.	Net cash flow	(2,440,136)	(2,471,438)	(2,504,712)	(2,026,146)
c.	Earnings assumption	7.50%	7.50%	7.50%	7.50%
d.	Expected earnings	10,560,745	10,448,590	11,515,090	13,154,438
e.	Excess/(shortfall)	(9,600,359)	6,259,487	12,608,309	(9,118,731)

Development of Valuation Value of Assets (Police II)

	Year Ending June 30, 2015
1. Market value of assets at beginning of year	$ 176,405,576
2. Net new investments	
a. Contributions	$ 5,742,801
b. Benefits paid	(7,768,947)
c. Subtotal	(2,026,146)
3. Market value of assets at end of year	$ 178,415,137
4. Net earnings (3-1-2)	$ 4,035,707
5. Assumed investment return rate	7.50%
6. Expected return	$ 13,154,438
7. Excess return (4-6)	$ (9,118,731)

8. Development of amounts to be recognized as of June 30, 2015:

Fiscal Year End	Remaining Deferrals of Excess (Shortfall) of Investment Income	Offsetting of Gains/(Losses)	Net Deferrals Remaining	Years Remaining	Recognized for this valuation	Remaining after this valuation
	(1)	(2)	(3) = (1) + (2)	(4)	(5) = (3) / (4)	(6) = (3) - (5)
2011	$ 3,332,514	(3,332,514)	$ 0	1	$ 0	$ 0
2012	(3,840,144)	3,840,144	0	2	0	0
2013	3,755,692	(3,755,692)	0	3	0	0
2014	10,086,647	(5,870,669)	4,215,978	4	1,053,995	3,161,983
2015	(9,118,731)	9,118,731	0	5	0	0
	$ 4,215,978	$ 0	$ 4,215,978		$ 1,053,995	$ 3,161,983

9. Actuarial value of assets as of June 30, 2015 (Item 3 - Item 8)	$ 175,253,154
10. Ratio of actuarial value to market value	98.2%

*Values of $0 result from the beginning balance being offset by future gains or losses in the opposite direction.

Distribution of Active Members by Age and by Years of Service (Police II)
As of July 1, 2015

	Years of Credited Service												
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35 & Over	Total
Attained Age	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.
Under 25	0	0	0	0	0	0	0	0	0	0	0	0	0
	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
25-29	0	2	3	3	6	0	0	0	0	0	0	0	14
	$0	$48,743	$53,935	$66,034	$67,766	$0	$0	$0	$0	$0	$0	$0	$61,714
30-34	1	2	2	5	2	9	0	0	0	0	0	0	21
	$40,209	$50,861	$56,337	$60,998	$74,706	$76,496	$0	$0	$0	$0	$0	$0	$66,546
35-39	0	0	1	2	0	4	19	1	0	0	0	0	27
	$0	$0	$58,487	$63,725	$0	$69,930	$80,898	$82,503	$0	$0	$0	$0	$77,230
40-44	0	0	0	0	0	3	18	22	1	0	0	0	44
	$0	$0	$0	$0	$0	$75,328	$76,504	$88,179	$98,204	$0	$0	$0	$82,755
45-49	0	0	0	0	0	2	4	12	9	2	0	0	29
	$0	$0	$0	$0	$0	$75,962	$79,494	$80,376	$92,476	$99,749	$0	$0	$85,041
50-54	0	0	0	0	0	0	0	6	4	9	2	0	21
	$0	$0	$0	$0	$0	$0	$0	$87,782	$85,321	$80,842	$88,179	$0	$84,377
55-59	0	0	0	0	0	0	0	0	0	3	0	0	3
	$0	$0	$0	$0	$0	$0	$0	$0	$0	$93,251	$0	$0	$93,251
60-64	0	0	0	0	0	0	0	0	0	0	1	0	1
	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$125,058	$0	$125,058
65 & Over	0	0	0	0	0	0	0	1	0	0	0	0	1
	$0	$0	$0	$0	$0	$0	$0	$133,674	$0	$0	$0	$0	$133,674
Total	1	4	6	10	8	18	41	42	14	14	3	0	161
	$40,209	$49,802	$55,494	$63,054	$69,501	$74,782	$78,832	$86,841	$90,841	$86,202	$100,472	$0	$79,282

History of Investment Return Rates

Year Ending June 30 of	Market
(1)	(2)
2000	17.19%
2001	-13.52%
2002	-3.93%
2003	5.22%
2004	15.04%
2005	9.49%
2006	8.73%
2007	15.65%
2008	-4.92%
2009	-16.26%
2010	14.16%
2011	22.24%
2012	0.68%
2013	11.99%
2014	15.71%
2015	2.30%
Average Returns:	
Last 5 Years	10.29%
Last 10 Years	6.18%

Near Term Outlook

Valuation as of July 1,	Unfunded Actuarial Accrued Liability (UAAL)	Funded Ratio	Market Value of Fund (in 000s)	For Fiscal Year Ending June 30,	Employer Contribution Rate	Covered Compensation	Employer Contributions	Employee Contributions	Benefit Payments and Refunds	Net External Cash Flow
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2015	$ 21,456,574	89.1%	$ 178,415,137	2016	29.1%	$ 12,764,469	$ 3,717,013	$ 1,858,507	$ 8,722,107	$ (3,146,587)
2016	19,970,914	90.3%	188,531,688	2017	28.4%	13,022,935	3,701,118	1,850,559	9,391,290	(3,839,613)
2017	18,488,249	91.4%	198,687,966	2018	27.6%	13,281,754	3,669,749	1,835,538	10,096,033	(4,590,746)
2018	17,032,107	92.5%	208,826,664	2019	26.8%	13,573,123	3,640,312	1,820,156	10,810,601	(5,350,133)
2019	16,669,225	92.9%	218,937,901	2020	26.0%	13,909,111	3,613,587	1,806,794	11,521,050	(6,100,670)
2020	16,353,002	93.3%	229,028,798	2021	25.5%	14,289,182	3,645,170	1,823,300	12,274,829	(6,806,359)

These projections are based on the current funding policy and assumes that all current assumptions are met each year in the future.

Schedule of Funding Progress

Date	Actuarial Value of Assets (AVA)	Actuarial Accrued Liability (AAL)	Unfunded Actuarial Accrued Liability (UAAL) (3) - (2)	Funded Ratio (2)/(3)	Annual Payroll	UAAL as % of Payroll (4)/(6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
July 1, 2009	$137,152,325	$ 139,554,358	$ 2,402,033	98.3%	$13,099,942	18.3%
July 1, 2011	140,644,601	162,563,786	21,919,185	86.5%	11,082,010	197.8%
July 1, 2013	147,587,524	182,130,783	34,543,259	81.0%	11,822,199	292.2%
July 1, 2014	163,070,867	186,157,733	23,086,866	87.6%	12,212,862	189.0%
July 1, 2015	175,253,154	196,709,719	21,456,565	89.1%	12,764,469	168.1%

Actuarial Methods and Assumptions

Actuarial Cost Method: *Entry Age Normal actuarial cost method:* Under this method, the normal cost is the amount calculated as the level percentage of pay necessary to fully fund each active member's prospective benefit from entry age to retirement age. The total actuarial accrued liability, which is re-determined for each individual member as of each valuation date, represents the theoretical accumulation of all prior years' normal costs for the active members as if the present plan had always been in effect, plus the liability for any retirees or beneficiaries. The unfunded actuarial accrued liability represents the excess of the total actuarial accrued liability over the valuation assets.

Amortization Policy: The amortization of the UAAL is determined as a level percentage of payroll over a closed period using the process of "laddering". Bases that existed prior to this valuation continue to be amortized on their original schedule. New experience losses are amortized over individual periods of 30 years. New gains are offset against and amortized over the same period as the current largest outstanding loss which in turn decreases contribution rate volatility.

Asset Valuation Method: The actuarial value of assets is based on the market value of assets with a five-year phase-in of actual investment return in excess of (less than) expected investment income. Offsetting unrecognized gains and losses are immediately recognized, with the shortest remaining bases recognized first and the net remaining bases continue to be recognized on their original timeframe. Expected investment income is determined using the assumed investment return rate and the market value of assets (adjusted for receipts and disbursements during the year). The returns are computed net of administrative and investment expenses.

Actuarial Assumptions:

1. Interest 7.50% per year, net of investment and administrative expenses.

2 . Salary Increases The sum of (i) a 4.00% wage inflation assumption (composed of a 2.75% price inflation assumption and a 1.25% additional general increase), and (ii) a service-related component as shown below:

Police/Fire Employees		
Years of Service	Service-Related Component	Total Increase
1	10.00%	14.00%
2	9.00	13.00
3	7.00	11.00
4	4.00	8.00
5	2.50	6.50
6	3.00	7.00
7	0.50	4.50
8	0.50	4.50
9 or more	0.00	4.00

Salary increases are assumed to occur once a year, on July 1. Therefore the pay used for the period year following the valuation date is equal to the reported pay for the prior year, increased by the salary increase assumption. For employees with less than one year of service, the reported rate of pay is used rather than the fiscal year salary paid.

3. Mortality

A. Pre-retirement mortality (combined ordinary and duty):

a. Male employees: 115% of the RP-2000 Combined Healthy for Males with White Collar adjustments, projected with Scale AA.

b. Female employees: 95% of the RP-2000 Combined Healthy for Females with White Collar adjustments, projected with Scale AA.

c. Disabled males – 60% of the PBGC Table Va for disabled males eligible for Social Security disability benefits.

d. Disabled females – 60% of the PBGC Table VIa for disabled females eligible for Social Security disability benefits.

B. Pre-retirement mortality (combined ordinary and duty):

a. Male employees: 75% of RP-2000 Combined Healthy for Males with White Collar adjustments.

b. Female employees: 75% of RP-2000 Combined Healthy for Females with White Collar adjustments.

Sample rates are shown below:

Number of Deaths per 100		
Age	Males	Females
25	0.03	0.02
30	0.03	0.02
35	0.04	0.03
40	0.07	0.05
45	0.10	0.08
50	0.15	0.12
55	0.25	0.19
60	0.42	0.35
65	0.83	0.65
70	1.45	1.14

4. Disability

Sample rates per 1,000 active members are shown below. Ordinary disability rates are not applied to members eligible for retirement.

Age	Number of Disabilities per 1,000	
	Ordinary, Males and Females	Accidental, Males and Females
25	0.26	2.55
30	0.33	3.30
35	0.44	4.35
40	0.66	6.60
45	1.08	10.80
50	1.82	18.15
55	1.82	18.15
60	1.82	18.15
65	1.82	18.15

5 . Termination:

Termination rates (for causes other than death, disability, or retirement) are a function of the member's service. Termination rates are not applied to members eligible for retirement. Rates are shown below:

Service	Termination Rate	Service	Termination Rate
1	0.100000	11	0.012761
2	0.047300	12	0.011332
3	0.036903	13	0.010026
4	0.030821	14	0.008826
5	0.026506	15	0.007714
6	0.023158	16	0.006679
7	0.020424	17	0.005711
8	0.018111	18	0.004802
9	0.016108	19	0.003944
10	0.014342	20+	0.000000

6. Retirement Age

Rates of retirement are based on an employee's length of service, as follows:

Police II Members	
Service	Retirement Election
25	50.0%
26	16.0%
27	18.0%
28	20.0%
29	20.0%
30+	35.0%

7. Benefit and Compensation Limits

Benefit limits under Section 415 and compensation limits under Section 401(a)(17) of the Internal Revenue Code are assumed to have no impact on benefits earned under this plan.

8. Marriage / Dependents

80% of active employees are assumed to be married at retirement or death, with two children ages 11 and 13. Wives are assumed to be three years younger than their husbands. No remarriage is assumed.

9. Service Purchase

None assumed.

10. Administrative and Investment Expenses

None. The 7.50% investment return assumption represents the assumed return net of all investment and administrative expenses.

Outline of Principal Plan Provisions

1. *Effective Dates:*

a. Original Plan	February 1, 1971.
b. Most Recent Amendment	July 1, 1991.

2. *Eligibility:* All permanent members of the police department appointed on or after February 1, 1971.

3. *Tier:* Members who hire by June 30, 2012 are in Tier I, while members who join later are in Tier II.

4. *Final Average Salary(FAC):*
Tier I: Salary received in the highest year of creditable service.
Tier II: Average of the salaries received in the last three years of creditable service.
For pension purposes, annual salary includes regular, holiday, and longevity pay.

5. *Retirement:*

a. Eligibility	Tier I: Members who have completed 20 years of service may retire. Tier II: Members attain age 50 or older and with at least 25 years of service may retire.
b. Benefit Formula	Tier I: The annual benefit at retirement is equal to 50% of annual salary at retirement, plus 2% of annual salary for each year of service between 20 and 25, plus 3% of annual salary for each year of service between 25 and 30. Tier II: 2% of FAC times years of service.
c. Maximum Benefit	Tier I: 75% of FAC. Tier II: 70% of FAC.
d. Commencement Date	Retirement benefits commence as of the first payroll period after retirement.
e. Form of Payment	The annual benefit calculated in accordance with the formula in (b) above is payable semi-monthly for the remainder of the retired member's life, with 67.5% of the member's benefit payable for the lifetime of his surviving spouse.

6. Vested Termination:

a. Eligibility	Upon termination of employment after 10 years of service a member is eligible for a benefit deferred to retirement age.
b. Benefit Formula	2.5% of annual salary multiplied by full years of service at termination.
c. Commencement Date	Benefits commence as of normal retirement age.
d. Form of Payment	Same as retirement.

7. Disability Retirement:

a. Eligibility	A member who is unable to perform active duty as a result of disability which the Board of Public Safety finds to be permanently incapacitating is eligible to receive disability retirement benefits.
b. Benefit Formula	Service Related For Tier I members, the benefit would be equal to 66-2/3% of highest annual salary, reduced for each dollar of earned income in excess of the salary the member would earn as an active employee, to a minimum of 50% of salary. For Tier II members, the benefit would initially be the same, but once the member reached 25 years of service, including service while disabled, the benefit would be converted to a regular retirement benefit. (The age 50 minimum for retirement would not apply to this benefit.) Non-Service Related 50% of highest annual salary.
c. Commencement Date	Benefits commence as of the first payroll period after disability.
d. Form of Payment	Same as retirement.

8. Non-vested Termination of Employment:

A member who leaves employment prior to completing 10 years of service will receive a lump sum payment of his accumulated contributions without interest.

9. Death Before Retirement -- Survivor Annuity Benefits

a. Eligibility — Death while actively employed.

b. Benefit Formula

(1) Surviving spouse — Service Related. The annual benefit is 50% of the deceased member's highest annual salary, payable to the surviving spouse until death or earlier remarriage.

Non-Service Related. 30% of the deceased member's highest annual salary, payable to the surviving spouse until death or earlier remarriage.

(2) Surviving children — 10% of the deceased member's highest annual salary, payable to each surviving child until his 18th birthday (or for life if such child becomes permanently disabled prior to the member's death).

(3) Maximum family death benefit — Service Related. 75% of deceased's highest annual salary.

Non-Service Related. 50% of deceased's highest annual salary.

c. Commencement Date — Benefits commence as of the first payroll period after death.

d. Form of Payment — Surviving spouse's and children's benefits are payable semi-monthly.

10. Death Before Retirement -- Lump Sum Refund of Contributions

A lump sum payment equal to the member's accumulated contributions without interest shall be paid to the estate of any active member who dies with no surviving spouse or children.

11. Retiree Cost-of-Living Increases

Tier I: All benefits in pay status are increased by 3% annually.
Tier II: All benefits in pay status are increased by 75% of CPI, annual cap of 3%.

12. Service Purchase

For Tier I member, an active employee eligible to retire who has served in the U.S. armed forces may "purchase" additional years of service up to his number of years of military service, but no more than four years. A member may also purchase up to four years of prior civilian employment time with the City of Warwick. Either purchase would require the employee to contribute to the fund, at retirement, an additional year's contribution (at the then current contribution percentage) for each year of service purchased. However, the right to buy municipal service would be eliminated for Tier II members.

13. Employee Contributions

Members contribute a percentage of their covered earnings (regular, holiday, and longevity) equal to one third of the actuarially determined contribution rate.