

CITY OF JOLIET POLICE OFFICERS' PENSION FUND ANNUAL ACTUARIAL VALUATION FOR THE YEAR BEGINNING JANUARY 1, 2009

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October 6, 2009

The Pension Board City of Joliet Police Officers Pension Fund Joliet, Illinois

Dear Board Members:

We are pleased to provide our formal annual Actuarial Valuation Report as of January 1, 2009, covering the City of Joliet Police Officers Pension Fund. This report provides, among other things, the minimum annual contribution requirements of the Plan for the Plan Year commencing January 1, 2009, and ending on December 31, 2009 (which directly affects the City's tax levy in the 2010 fiscal year that is collected and deposited into the Pension Trust in fiscal year 2010). This valuation was based on the plan provisions as outlined in Section B of this report, the Plan participant data as provided by the City of Joliet (i.e., Plan Sponsor), and on the actuarial cost method and the set of actuarial assumptions as described in Section C of the report.

Chapter 40, Act 5, Article 3 of the Illinois Compiled Statutes requires an actuarial balance sheet (i.e., actuarial valuation) be prepared by a qualified actuary in order to determine the annual tax levy to meet the annual actuarial requirements of the Pension Fund. Alex Rivera and Dana Woolfrey of Gabriel, Roeder, Smith & Company have the following qualifications:

Alex Rivera is a Fellow of the Society of Actuaries, a Member of the American Academy of Actuaries, and an Enrolled Actuary with over 20 years of responsible experience in the actuarial and pension consulting field.

Dana Woolfrey is an Associate of the Society of Actuaries, a Member of the American Academy of Actuaries, and an Enrolled Actuary with five years of responsible experience in the actuarial and pension consulting field.

It is our understanding, in accordance with the Illinois Compiled Statutes, that the undersigned more than satisfy the minimum requirements as set forth in the referenced Pension Code as recently amended.

In addition, it is also our understanding that the Pension Code requires that a member of the American Academy of Actuaries perform the required annual actuarial valuation and does not mandate that the Illinois Department of Insurance's annual actuarial valuation of the Pension Fund be controlling or that the Department of Insurance accept or approve another actuarial valuation of the Pension Fund.

The Pension Board City of Joliet Police Officers Pension Fund Page 2

Both of the undersigned are Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries (MAAA) to render the actuarial opinion contained herein.

We will be pleased to review this report with you at your convenience.

Sincerely,

Alex Rivera, F.S.A., E.A., M.A.A.A.

Senior Consultant

alex Rivera

Dana Woolfrey, A.S.A., E.A., M.A.A.A.

Dava Wooffry

Senior Analyst

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SECTION A

VALUATION RESULTS

SUMMARY OF ACTUARIAL VALUATION RESULTS

		Prior Year Results	Current Year Results
Employee	Number of Active Police Officers	302	300
Data	Number of Service Retirees	87	89
	Number of Disabled Lives	11	12
	Number of Widow Beneficiaries	25	28
	Number of Children Beneficiaries	0	0
	Number of Separated Deferred Police Officers	2	6
	Number of Handicapped Beneficiaries	1	1
	TOTAL	428	436
	Total Annual Salaries of Police Officers	\$ 24,954,438	\$ 24,731,587
Plan	Gross Annual Normal Cost	\$ 6,734,909	\$ 6,668,740
Liabilities	Less Expected Member Contributions		
	(for Applicable Plan Year)	2,472,985	2,450,900
	Net Annual Normal Cost (Municipality Paid)	\$ 4,261,924	\$ 4,217,840
	Net Annual Normal Cost (As a percentage of pay) 1	17.1 %	17.1 %
	Gross Actuarial Accrued Liability:		
	Active Police Officers	\$ 115,057,025	\$116,504,143
	Retirees, Beneficiaries & Disabled	80,343,453	91,483,297
	TOTAL	\$ 195,400,478	\$207,987,440
	Actuarial Value of Assets at Valuation Date	\$ 116,895,642	\$126,084,170
	Unfunded (Overfunded) Actuarial Accrued Liability	\$ 78,504,836	\$ 81,903,270
	Funded Position of Plan's Gross Actuarial Accrued Liability ²	59.8 %	60.6 %

¹ Percents above represent annual plan contributions expressed as percentages of covered Police Officers' salaries.

² Equals the ratio of the actuarial value of assets to the total gross actuarial accrued liability.

SUMMARY OF ACTUARIAL VALUATION RESULTS (CONTINUED)

		Prior Year Results	Current Year Results
Minimum Annual Contribution	Net Annual Normal Cost (Municipality Paid)	\$4,261,924	\$4,217,840
Requirements	Annual Amortization Payments for Funding Unfunded Actuarial Accrued Liability Over 40 Years from July 1, 1993 as a level percentage of payroll	4,267,647	4,576,335
	Interest Adjustment to Expected Date of Payment into the Fund (Optional)	1,571,947	939,364
	Total Minimum Annual Contribution Requirement for the Current Plan Year	\$10,101,518	\$9,733,539
	Minimum Annual Contribution (As a percentage of pay)	40.5%	39.4%

DERIVATION OF EXPERIENCE GAIN (LOSS) YEAR ENDED JANUARY 1, 2009

Actual experience will never (except by coincidence) coincide exactly with assumed experience. It is hoped that gains and losses will cancel each other over a period of years, but sizable year-to-year fluctuations are common. Detail on the derivation of the experience gain (loss) is shown below, along with a year-by-year comparative schedule.

1.	Unfunded Actuarial Accrued Liability at 01/01/2008	\$ 78,504,836
2.	Normal Cost Due at 01/01/2008	6,734,909
3.	Interest on (1) and (2) to 01/01/2009 (at 7.00% per annum)	5,966,782
4.	Contributions (Employer and Employee) applicable to the 2008 Plan Year, with interest to 12/31/2008	11,900,282
5.	Expected Unfunded Actuarial Accrued Liability at $01/01/2009$ [(1) + (2) + (3) - (4)]	\$ 79,306,245
6.	Actual Unfunded Actuarial Accrued Liability at 01/01/2009	\$ 81,903,270
7.	Gain (Loss) for the 2008 Plan Year [(5) - (6)]	\$ (2,597,025)

Experience Gain (Loss)					
As % of Beginning					
Accrued Liability ¹					
(6.00)%					
(7.91)%					
(2.93)%					
1.48 %					
(5.74)%					
(2.50)%					
(5.28)%					
2.11 %					
(13.32)%					
1.38 %					
(1.33)%					

¹ Excluding Plan and assumption changes.

COMMENTS AND ANALYSIS

The valuation results pertaining to the current Plan Year are analyzed and discussed in the following paragraphs.

Plan History

The following table provides a summary of the Plan's rate of return on assets and salary increase experience over the last 19 actuarial valuations performed by Gabriel, Roeder, Smith & Company:

12/31/1990 7.8 % 5.9 % 12/31/1991 7.9 4.6			4.6
	12/31/1992		
		7.6	
12/31/1992 7.6 7.0	12/31/1993		7.0
12/31/1993 6.8 6.2		6.8	6.2
12/31/1994 5.8 6.5	12/31/1994	5.8	6.5
12/31/1995 9.6 7.1	12/31/1995	9.6	7.1
12/31/1996 3.4 8.7	12/31/1996	3.4	8.7
12/31/1997 7.1 3.6	12/31/1997	7.1	3.6
12/31/1998 8.8 5.8	12/31/1998	8.8	5.8
12/31/1999 5.5 8.7	12/31/1999	5.5	8.7
12/31/2000 6.9 6.0	12/31/2000	6.9	6.0
12/31/2001 3.4 5.4	12/31/2001	3.4	5.4
12/31/2002 (0.3) 7.6	12/31/2002	(0.3)	7.6
12/31/2003 9.4 7.4	12/31/2003	9.4	7.4
12/31/2004 4.9 9.9	12/31/2004	4.9	9.9
12/31/2005 3.8 2.7	12/31/2005	3.8	2.7
12/31/2006 9.0 22.0	12/31/2006	9.0	22.0
12/31/2007 7.1 6.5	12/31/2007	7.1	6.5
12/31/2008 (8.6) 1.6	12/31/2008	(8.6)	1.6

The Salary Scale increase has averaged 6.9% over the last 19 years. We believe the 5.25% salary scale continues to be a reasonable long-term assumption. The salary scale was adjusted in the most recent valuation to recognize that members with less than three years of service receive higher pay increases. As part of each annual valuation, we will review salary scale increases and determine whether the current assumption continues to be appropriate.

Over the same 19-year period, the Plan's assets have averaged an annual rate of investment return of 5.5%. We believe the 7.00% annual rate of return on Plan assets is within the range of reasonable assumptions. However, we recommend that the City monitor this assumption for continuing reasonableness at each future valuation.

COMMENTS AND ANALYSIS (CONTINUED)

Analysis of	,
the Experience Gain	1
(Loss)	

The experience gain(loss) reported on page A-3, is the net result of the following:

(a) From plan asset performance	\$	(4,559,577)
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(b) Other sources ("net effect" of salary increases, terminations, new entrants, retirements, etc.) 1,962,552

Total Gain/(Loss): [(a) + (b)] \$ (2,597,025)

Changes in the Annual Contribution

The dollar amount for the plan's annual minimum required contribution is approximately 3.6% lower than the level for the prior plan year. As a percentage of payroll, the contribution requirement is lower than last year (i.e., decreasing from 40.5% to 39.4%). The important factors producing this change are summarized as follows:

1.	Minimum Annual Contribution Requirement for	
	prior plan year	\$ 10,101,518

2.	Actual Asset Performance (based on market-	
	related value of assets)	301,718

3.	Increase in Normal Cost and Amortization	
	Amount due to anticipated pay increases	404,061

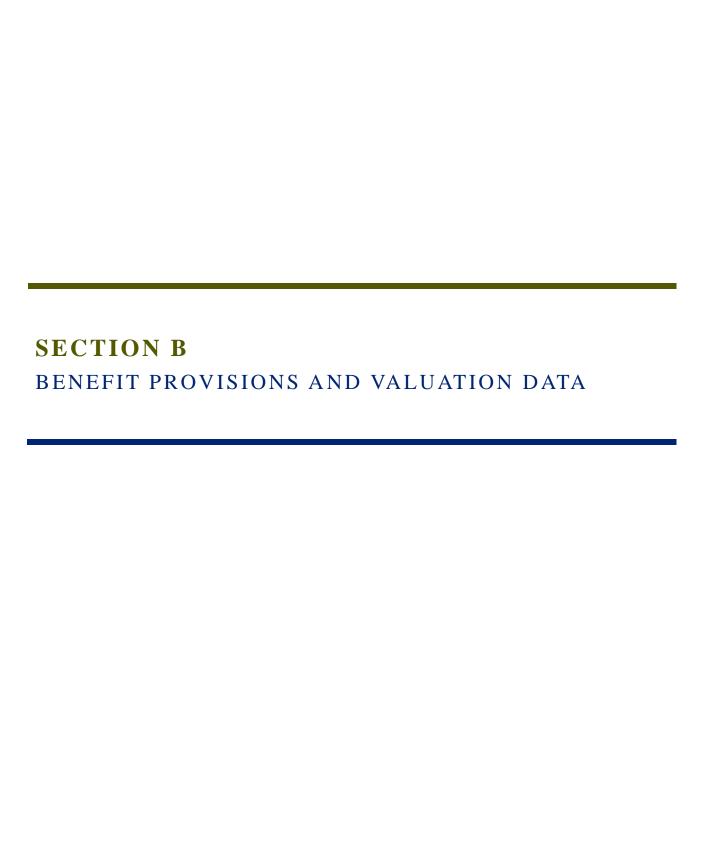
COMMENTS AND ANALYSIS (CONTINUED)

Comments on Actuarial Value of Assets

Government accounting standards mandate the use of market value of assets or market-related value of assets for accounting purposes. The Pension Fund used market-related value of assets for both government accounting and funding purposes. This market-related value of assets will recognize gains and losses due to return on plan assets over a four-year period. Hence, only a portion of this year's investment loss (see Section B for details) is included in the current year actuarial value of assets. The remainder of the gain or loss will be incorporated into Pension Fund assets over the next three years. The purpose of this technique is to minimize contribution volatility due to fluctuations in the market value of assets. Finally, receivables for plan years prior to the current plan year which are not in Plan assets by December 31, 2008, are not included in assets for Government accounting standards purposes.

GASB Statements No. 25 and 27

GASB Statement No. 25 is applicable to fiscal years beginning after June 15, 1996. It was adopted by the City of Joliet Police Officers Pension Fund in the January 1997 report. GASB Statement 27 is applicable to fiscal years beginning after June 15, 1997. It was adopted by the City of Joliet Police Officers Pension Fund in the January 1998 report. A transition pension liability (asset) has been developed under Statement No. 27 equal to the cumulative difference between the actuarially determined funding requirement and the actual amount contributed for fiscal years 1987 to the date GASB 27 is adopted. As of the adoption date, all outstanding pension liabilities (assets) are adjusted to equal the transition NPO. Section D of this report provides further details and explanations on these regulations.



BRIEF SUMMARY OF PLAN PROVISIONS (JANUARY 1, 2009)

Plan

Police Pension Fund as Incorporated in Chapter 40, Act 5, Article 3 of the Illinois Compiled Statutes

Effective Date

Enacted:

July 25, 1963

Last Amended Effective: August 29, 2008

Eligibility to Participate

Generally, any person who is in the Police Department of a city, village or incorporated town (whose population is 500,000 or less) which has adopted the provisions of Chapter 40, Act 5, Article 3 of the Illinois Compiled Statutes concerning Police Officers' pensions, is eligible to participate, subject to the following:

- (a) The person has been appointed to the Police force of a Police Department and sworn and commissioned to perform Police duties; and
- (b) Within three months after receiving his/her first appointment (or within three months after any re-appointment) the person makes written application to the Board to be covered under the provisions of the Article; and
- (c) The person is found to be physically and mentally fit to perform the duties of a Police Officer.

Notwithstanding, the following persons are <u>not</u> considered eligible for participation in this Fund: part-time Police Officers, special Police Officers, night watchmen, temporary employees, traffic guards, or auxiliary Police Officers (specially appointed to aid or direct traffic at or near schools or public functions, or to aid in civil defense), municipal parking lot attendants, clerks or other civilian employees of a Police Department who perform clerical duties exclusively.

Employee Contributions (Mandatory)

In order to participate in the plan, each Police Officer must contribute 9.910% of his/her regular salary. "Salary" in this instance means annual salary and includes longevity pay attached to the Police Officer's rank but excludes overtime pay, holiday pay, bonus pay, merit pay or any other cash benefit over and above the salary established by the appropriation ordinance.

Creditable Service

"Creditable Service" is the time period during which a person serves as a Police Officer of a regularly constituted Police force of a municipality. Furloughs without pay exceeding 30 days in any one year shall not be counted, but all leaves of absence for illness or accident, regardless of length, shall be counted. Also, time attributable to disability for which the Police Officer does not receive disability pension benefits under this Article shall be counted as "Creditable Service."

In addition, creditable service includes all periods of service in the Military, Naval or Air Forces of the United States of America, entered into when the person was an active Police Officer, provided that the Police Officer contributes to the Fund the amount that he/she would have paid had he/she been a regular contributor during such Military service. Not more than five years may be counted under this provision.

Eligibility For and Amount of Regular Retirement Benefits

I. Age 50 (or More) and 20 or More Years of Creditable Service Benefit:

A Police Officer who is age 50 (or more) and has 20 years (or more) of Creditable Service and is no longer in service as a Police Officer is entitled to a pension payable for life equal to 50% of his/her salary attached to the rank held by the Officer one year immediately prior to retirement.

Effective July 1, 1987, for persons terminating service on or after that date, the applicable salary will be the greater of: (1) the salary attached to the rank held on the last day of service; or (2) the salary one year prior to the last day of service.

For Creditable Service over 20 years, the pension is increased as follows:

• 2.5% of the Police Officer's salary for each additional year over 20 years of Creditable Service, up to 30 years, subject to the maximum of 75% of his/her salary.

Notwithstanding the above, no Pension in effect or granted for a Police Officer with 20 or more years of service after January 1999 is to be less than \$600.00 per month. This increases to \$800.00 per month on January 1, 2000, and \$1,000.00 per month on January 1, 2001.

II. Eligibility—
Age 60 (or
More) and 8
(but Less than
20) Years of
Creditable
Service

Benefit:

A Police Officer who retires or is separated from service having at least 8 years (but less than 20) of Creditable Service and who does not apply for a refund of contributions at separation from service, is entitled to a monthly pension upon attaining age 60, payable for life, equal to years of Creditable Service multiplied by 2-1/2% of the salary attached to the rank he/she held in the Police force one year prior to retirement. Effective July 1, 1987, for persons terminating service on or after that date, the applicable salary will be the greater of: (1) the salary attached to the rank held on the last day of service; or (2) the salary one year prior to the last day of service.

A Police Officer who is mandatorily retired from service by reason of age through an operation of law, and has accumulated at least 8 years (but less than 20 years) of Creditable Service, is entitled to a pension payable for life equal to years of Creditable Service multiplied by 2-1/2% of the salary attached to the rank he/she held on the Police force one year immediately prior to retirement. Effective July 1, 1987, for persons terminating service on or after that date, the applicable salary will be the greater of: (1) the salary attached to the rank held on the last day of service; or (2) the salary one year prior to the last day of service.

III. Pension Allowance Increases

- A Police Officer who retired from service with 20 or more years of Creditable Service on or before July 1, 1971 is entitled to an increase of 3% of his/her original monthly pension for each year the Police Officer was in receipt of pension payments; such increase takes effect in the January of the year following the year in which he/she attains age 65, or January of 1972, if then age 65. Each subsequent January thereafter, the monthly pension is increased by 3% of the original monthly pension amount.
- A Police Officer who retired from service after July 1, 1971 and prior to January 1, 1986 is entitled to an increase of 3% of his/her original monthly pension either upon: (a) the first of the month following the first anniversary of his/her date of retirement if he/she was age 60 or more on the retirement date, or (b) the first of the month following the Police Officer's attainment of age 60 (if such occurs after the first anniversary of his/her retirement date). Each subsequent January thereafter, the monthly pension is increased by 3% of the original monthly pension amount.

- A Police Officer who retired from service on or after January 1, 1986 is entitled to an increase of 3% of his/her original monthly pension for each full year that has elapsed since the pension began. This occurs either upon: (a) the first of the month following the anniversary of his/her date of retirement if he/she was age 55 or older on the retirement date, or (b) the first of the month following the Police Officer's attainment of age 55 (if such occurs after the first anniversary of his/her retirement date). Each subsequent January thereafter, the monthly pension is increased by 3% of the original monthly pension amount.
- Notwithstanding the provisions of the second paragraph listed above, a Police Officer who retired from service after January 1, 1977 and prior to January 1, 1986 and did not receive a pension increase before July 1, 1987, is entitled to a 3% increase of his/her original monthly pension for each full year that has elapsed since the pension began. This occurs on the first day of the month following the later of either: (a) the first anniversary of the date of retirement, or (b) the attainment of age 55, or (c) July 1, 1987. Each subsequent January thereafter, the monthly pension is increased by 3% of the original pension amount.
- Notwithstanding the provisions of the previous paragraphs, beginning with increases granted on or after July 1, 1993, the second and all subsequent automatic annual increases under these provisions shall be calculated as 3% of the amount of pension payable at the time of the increase, including any increases previously granted under the prior provisions, rather than 3% of the originally granted pension amount.

Eligibility For and Amount of Disability Benefits

I. Disability
Incurred in
the Line of
Duty

If a Police Officer is injured or suffers an accident or sickness as the result of carrying out his/her duties as a Police Officer (even if those duties take him/her to a place away from the municipality in which he/she serves as a Police Officer, and assuming such duties are related to the Police protection service of such municipality), then such a disabled Police Officer is entitled to a disability retirement pension equal to the maximum of: (a) 65% of the monthly salary attached to the rank held by the officer in the Police Department at the date of suspension of duty or retirement, or (b) his/her accrued benefit.

II. Disability on Account of Occupational Hazards If a Police Officer suffers a heart attack as a result of the performance and discharge of duties as a Police Officer, then he/she is eligible for any benefits provided under this Article for Police Officers who are injured in the performance of an act of duty.

III. Disability Due to Occurrences Unrelated to Duties If a Police Officer becomes mentally or physically disabled as the result of any cause other than the performance of an act of duty, he/she is entitled to a disability pension equal to 50% of the salary attached to the rank held by the officer in the Police Department at the date of suspension of duty or retirement.

Notwithstanding the provisions of I, II and III above, no disability pension in effect or granted after January 1, 1987 is to be less than \$600.00 per month. This increases to \$800.00 per month on January 1, 2000 and \$1,000.00 per month on January 1, 2001.

IV. Special
Disability
Pension
Option

A Police Officer, age 50 or more, who is receiving a disability pension and who has completed 20 years of service may apply for a retirement pension equal to 1/2 of the salary attached to his/her rank on the Police force at the date of his/her retirement for disability. In computing years of service for this benefit option, the period during which the Police Officer received a disability pension should be added to his/her period of active service.

V. Disability
Pension
Allowance
Increase

A Police Officer who is receiving a disability pension is entitled to receive an automatic increase upon the attainment of age 60. At this date, the monthly pension is increased by 3% of the original monthly pension for each year the Police Officer was in receipt of monthly pension payments. Each subsequent January thereafter, the monthly pension is again increased by 3% of the original monthly pension amount.

Death Benefits to Surviving Spouse or Dependents

I. Death in Line of Duty

If a Police Officer dies while in the line of duty as a result of any injuries or if a Police Officer sustains injuries from which he/she thereafter dies, then the surviving spouse is entitled to a pension equal to 100% of the salary attached to the rank the Police Officer held for one year immediately prior to his/her death. This benefit is payable to the survivors in the sequence noted in Section VI — Rights on Death of a Pensioner.

II. Death in Service Wi

Service With 10 or More but Less than 20 Years of Creditable Service If a Police Officer dies while in service after having at least 10 but less than 20 years of Creditable Service, then his/her surviving spouse is entitled to a pension equal to 50% of the salary attached to the rank held by the Police Officer for one year immediately prior to his/her death. Such benefit is payable to the survivors in the sequence noted in Section VI — Rights on Death of a Pensioner.

III. Death in

Service With 20 or More Years of Creditable Service If a Police Officer dies while in service after having at least 20 years of Creditable Service (regardless of age), then the surviving spouse is entitled to a pension earned by the Police Officer as of the date of death. Such benefit is payable to the survivors in the sequence noted in Section VI — Rights on Death of a Pensioner.

IV. Death While on Disability

If a Police Officer who is receiving a disability pension dies while still disabled, his/her disability pension shall continue to be paid to the surviving spouse or dependents in the sequence noted in Section VI — Rights on Death of a Pensioner.

Notwithstanding the provisions of I, II, III or IV above, effective January 1, 1999, the minimum death benefit payable to the surviving spouse or dependents is \$400.00 per month. This increases to \$800.00 per month on January 1, 2000 and \$1,000 per month on January 1, 2001.

V. Less than 10 Years of Creditable Service

If a Police Officer dies before he/she has 10 years of Creditable Service, all contributions made by the Officer shall be refunded to the surviving spouses without interest.

VI. Rights on Death of a Pensioner

If a Police Officer who was receiving or was entitled to receive a monthly pension dies, the surviving spouse is entitled to the pension to which the Police Officer was then entitled. Upon the surviving spouse's death or re-marriage, the Police Officer's unmarried children (under age 18) or unmarried children who are dependent because of a physical or mental disability are entitled to equal shares of the pension. If there is no eligible surviving spouse and no eligible children, the dependent parent or parents of the Police Officer are entitled to receive or share such pension until their death, or marriage, or remarriage.

Special Note: If a Police Officer marries subsequent to retirement on any pension, the surviving spouse and the children of such surviving spouse shall receive no pension on the death of the Officer.

Termination of Employment Benefits

Refund of Employee Contributions

A Police Officer who has less than 20 Years of Service and who resigns or is discharged (and has not received any disability payments) is entitled to a refund of his/her total amount contributed to the Police Pension Fund during his/her period of service. If the Police Officer should be subsequently re-employed, he/she must repay to the fund the amount of refund which was received, plus interest at 2% per annum from the date of refund to the date of repayment, before commencing service. When repayment is made, the Police Officer will receive credit for the previous years of service for which the refund was received.

Financing of Pension Benefits

Pension benefits are to be funded by "employee" deductions from wages and salaries of Police Officers and by a property tax levied by the Municipality. The amount derived from these two sources should equal the sum sufficient to meet the annual actuarial requirements of the pension fund as stated below:

(1) Provide a reserve for the pensions and benefits earned by the Police Officers and all beneficiaries — provided that the reserve to be accumulated shall not exceed the estimated total actuarial requirements of the fund,

and

(2) In a municipality that has a reserve less than the actuarial requirements of the fund, the Board of the Pension Fund shall designate the proportionate amount needed annually to insure the accumulation of such actuarial reserve over a period of 40 years subsequent to July 1, 1993, in the case of pension funds in operation on that date.

Administration

The Police Pension Fund is administered by a Board of Trustees located in each municipality maintaining a Pension Fund for its Police Officers. Its duties are: to control and manage the pension fund, to enforce the collection of the contributions, to hear and determine applications for pensions, to authorize payment of pensions to establish rules, to pay expenses, to invest funds, and to keep records.

ACTIVE MEMBERS AS OF JANUARY 1, 2009 BY ATTAINED AGE AND YEARS OF SERVICE

Attained			Year	s of Serv	rice to V	aluation	Date				Totals Valuation
Age	0	1-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 35	Totals	Payroll
Under 20										0	\$ 0
20-24		5								5	269,801
25-29	2	34	4							40	2,708,375
30-34	5	18	29	3						55	3,906,672
35-39		6	26	29	8					69	5,671,030
40-44		1	4	18	22	6				51	4,507,603
45-49				7	14	10	3			34	3,156,665
50-54				2	4	4	15	6		31	2,960,238
55-59						2	3	6	2	13	1,314,747
60-64								1	1	2	236,456
65-69										0	0
Over 70										0	0
Total	7	64	63	59	48	22	21	13	3	300	\$24,731,587

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 39.6 years Service: 13.1 years Annual Pay: \$82,439

DEVELOPMENT OF ACTUARIAL (MARKET-RELATED VALUE) OF ASSETS

1. Market value of assets at 01/01/2008

Return on Market Value of Assets for Prior Year	2. Actual income and disburseme	ents in prior year v	veighted for timin		Woightad		
	Item	Amount	Timing		Weighted Amount		
	(a) Member Contributions	\$ 2,681,380	50.00%	\$	1,340,690		
	(b) City Contributions	5,882,342	50.00%	φ	2,941,171		
	(c) Miscellaneous Revenue		50.00%		45,075		
	` '	90,150			*		
	(d) Benefit Payments	(6,124,152)	50.00%		(3,062,076)		
	(e) Administration	(82,260)	50.00%		(41,130)		
	(f) Total			\$	1,223,730		
	3. Market value of assets adjuste4. Assumed rate of return on pla			[(1)	+ (2)(f)]	\$	7.00%
	5. Expected return [(3) * (4)]					\$	7,326,385
Actual Retur	6. Market value of assets at 01/0	01/2008				\$:	103,438,914
on Market	7. Income (less investment incon	ne) for prior plan v	ear			·	8,653,872
Value of	8. Disbursements paid in prior ye						6,206,412
Assets for	9. Market value of assets at 01/0						96,923,937
Prior Year	10. Actual Return [(9) + (8) - (7)						(8,962,437)
Gain/(Loss)	11. Investment gain/(loss) for prio	r year [(10) - (5)]				\$	(16,288,822)

Expected

\$ 103,438,914

DEVELOPMENT OF ACTUARIAL (MARKET-RELATED VALUE) OF ASSETS (CONTINUED)

Actuarial Value of Assets as of 01/01/2009 12. Market value of assets at 01/01/2009

\$ 96,923,937

13. Deferred investment gains and (losses) for last 3 years:

			Percent	Deferred
	Plan Year Beginning	Gain/(Loss)	Deferred	Amount
a)	2006	\$ 1,316,152	25.00%	\$ 329,038
b)	2007	(361,372)	50.00%	(180,686)
c)	2008	(16,288,822)	75.00%	(12,216,617)
d)	Total	\$(15,334,042)		\$ (12,068,265)

14. Item (12) less item 13(d) \$ 108,992,202

15. 2009 Tax Year Levy (i.e., the 2008 Plan Year Contributions) 10,101,518

16. Interest Adjustment on item (15) to 01/01/2009 (974,877)

17. 2008 Tax Year Levy 8,239,398

18. Interest Adjustment on 2008 Tax Year Levy to 01/01/2009 (274,071)

19. Actuarial Value of Plan Assets at 01/01/2009 [(14) + (15) + (16) + (17) + (18)] \$\\$ 126,084,170

Notes:

- (1) The calculated value is determined by adjusting the market value of assets to reflect the investment gains and losses (the difference between the actual investment return and the expected investment return) during each of the last four years at the rate of 25% per year.
- (2) Assumes the 2009 tax year levy is collected and deposited in the Pension Fund on July 1, 2010.
- (3) Assumes the remainder of the 2008 tax year levy is collected and deposited in the Pension Fund on July 1, 2009.



ACTUARIAL COST METHOD

Normal cost and the allocation of benefit values between service rendered before and after the valuation date was determined using the *individual entry-age actuarial* cost method having the following characteristics:

- the annual normal costs for each individual active member, payable from the date of employment to the date of retirement, are sufficient to accumulate the value of the member's benefit at the time of retirement;
- each annual normal cost is a constant percentage of the member's year-by-year projected covered pay.

Financing of Unfunded Actuarial Accrued Liabilities. Unfunded actuarial accrued liabilities were amortized by level (principal and interest combined) percent of payroll contributions over 24.5 future years.

Actuarial Value of Pension Plan Assets. The current market value of assets (including discounted contributions due for prior Plan Years and not received as of the valuation date) is reduced (increased) for the current year and each of two succeeding years, by a portion of the gain/(loss) in market value during the prior year. Such gain/(loss) is determined as the excess/(deficit) of the current market value of assets over the market value of assets as of the prior year, increased to reflect interest at the actuarial rate and adjusted to reflect contributions and benefit payments during the prior year. The portion of such gain/(loss) by which the current market value of assets is reduced (increased) shall be 75% in the current year, 50% in the first succeeding year and 25% in the second succeeding year.

ACTUARIAL ASSUMPTIONS IN THE VALUATION PROCESS

The contribution and benefit values of the System are calculated by applying actuarial assumptions

to the benefit provisions and census information furnished, using the actuarial cost method

described on the previous page.

The principal areas of financial risk which require assumptions about future experiences are:

• long-term rates of investment return to be generated by the assets of the System

patterns of pay increases to members

• rates of mortality among members, retirees and beneficiaries

• rates of withdrawal of active members

• rates of disability among members

• the age patterns of actual retirement.

In a valuation, the monetary effect of each assumption is calculated for as long as a present covered

person survive; a period of time which can be as long as a century.

Actual experience of the System will not coincide exactly with assumed experience. Each valuation

provides a complete recalculation of assumed future experience and takes into account all past

differences between assumed and actual experience. The result is a continual series of adjustments

(usually small) to the computed contribution rate.

From time to time it becomes appropriate to modify one or more of the assumptions, to reflect

experience trends (but not random year-to-year fluctuations).

City of Joliet Police Officers' Pension Fund Actuarial Valuation Report as of January 1, 2009

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VALUATION ASSUMPTIONS

The assumed rate of investment return used was 7.00%, net of expenses, annually.

The mortality table used to measure retirement mortality was based on the 1983 Group Annuity Mortality Table. This assumption is used to measure the probabilities of members dying before retirement and the probabilities of each benefit payment being made after retirement.

_	Single Life Retirement Values					
Sample	Present \	Value of \$1	Futu	re Life		
Attained	Monthl	y for Life	Expectar	ncy (years)		
Ages	Men	Women	Men	Women		
50	\$ 144.69	\$ 155.06	29.18	34.92		
55	135.45	147.81	24.83	30.24		
60	124.06	138.53	20.64	25.67		
65	110.40	126.98	16.69	21.29		
70	95.57	112.91	13.18	17.13		
75	80.25	97.07	10.15	13.38		
80	65.26	81.04	7.64	10.20		

The disability retirement mortality table was based on 110% of the 1983 Group Annuity Mortality Table.

_	Single Life Retirement Values					
Sample	Present \	Value of \$1	Futu	re Life		
Attained_	Monthly for Life		Expectar	ncy (years)		
Ages	Men	Women	Men	Women		
50	\$ 142.99	\$ 153.90	28.29	34.07		
55	133.40	146.34	23.97	29.41		
60	121.65	136.71	19.84	24.88		
65	107.61	124.76	15.95	20.53		
70	92.49	110.28	12.51	16.43		
75	77.03	94.11	9.56	12.73		
80	62.04	77.93	7.13	9.64		

VALUATION ASSUMPTIONS (CONTINUED)

Rates of separation from active membership are represented by the following table (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members terminating employment.

	Sample Employ	ee Withdrawal	
Years of	Rate Per 1,000 Employees		
Service	Males	Females	
0	38.0	38.0	
5	29.0	29.0	
10	20.0	20.0	
15	13.0	13.0	
20	9.0	9.0	
25	6.0	6.0	
30 and Over	0.0	0.0	

The rates of salary increase used for individual members are in accordance with the following table. This assumption is used to project a member's current salary to the salaries upon which benefit amounts will be based.

Salary Increase Assumptions
For an Individual Member

Years of		
Service	Increase	
1	30.00%	
2	25.00%	
3	10.00%	
>=4	5.25%	

VALUATION ASSUMPTIONS (CONTINUED)

Sample rates of disability were as follows:

Employee Disablement Rate Per 1,000 Employees

Age	Male	Female	
25	0.4	0.4	
30	0.5	0.5	
35	0.7	0.7	
40	1.0	1.0	
45	1.6	1.6	
50	2.6	2.6	
55	4.9	4.9	
60	8.7	8.7	
65	14.3	14.3	

Probabilities of retirement for members eligible to retire during the next year were as follows:

Rates of Retirement

Age	Rate	Age	Rate
50	5.0 %	60	25.0 %
51	5.0	61	50.0
52	5.0	62	50.0
53	10.0	63	50.0
54	10.0	64	50.0
55	10.0	65	100.0
56	10.0	66	100.0
57	10.0	67	100.0
58	25.0	68	100.0
59	25.0	69	100.0

SECTION D

GASB STATEMENT NOS. 25 AND 27

REQUIRED SUPPLEMENTARY INFORMATION SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation Date	GASB Value of Assets (a)	Actuarial Accrued Liability (b)	Unfunded AAL (UAAL) (b – a)	Funded Ratio (a / b)	Covered Payroll (c)	UAAL as a Percentage of Payroll [(b - a)/c]
01/01/2004	\$77,971,655	\$125,824,687	\$47,853,032	62.0%	\$17,894,736	267.4%
01/01/2005	82,605,121	141,764,187	59,159,066	58.3	18,832,734	314.1
01/01/2006	88,006,571	152,294,592	64,288,021	57.8	19,409,307	331.2
01/01/2007	95,538,634	182,417,318	86,878,684	52.4	23,422,967	370.9
01/01/2008	103,850,735	195,400,478	91,549,743	53.1	24,954,438	366.9
01/01/2009	108,992,202	207,987,440	98,995,238	52.4	24,731,587	400.3

SCHEDULE OF EMPLOYER CONTRIBUTIONS

_	Fiscal Year Ended	Annual Required Contribution (a)	Total Employer Contribution (b)	Percentage Contributed (b/a)
	12/31/2004	\$ 3,950,970	\$ 3,224,860	81.6%
	12/31/2005	4,699,264	3,889,751	82.8
	12/31/2006	5,248,252	4,450,585	84.8
	12/31/2007	7,363,057	5,291,233	71.9
	12/31/2008	9,238,713	5,972,492	64.6
	12/31/2009	9,749,187	TBD	TBD

ANNUAL PENSION COST AND CONTRIBUTIONS

Contribution rates:

City	Proceeds from a tax levy equal to the sum of: (a) annual normal cost plus (b) amortization of unfunded liability as a level percent of pay between now and 7/1/2033 plus (c) interest on (a) and (b) to date of payment.				
Plan members	9.910% of regular salary				
Annual Pension Cost for fiscal year ending	Annual Required Contribution (ARC)	\$	9,749,187		
December 31, 2009:	Interest on Net Pension Obligation		457,143		
	Adjustment to ARC	•	(364,897)		
	Total Annual Pension Cost	\$	9,841,433		
Net Pension Obligation (NPO):	Net Pension Obligation (NPO) at Beginning of year, January 01, 2008:	\$	3,214,125		
	Total Annual Pension Cost from Previous Yea	ar:	9,288,977		
	Total Employer Contribution for year ended December 31, 2008:		5,972,492		
	Net Pension Obligation (NPO) at End of year, December 31, 2008:	\$	6,530,610		

^{*} The annual required contribution is equal to the sum of: (a) annual normal cost plus (b) amortization of unfunded liability as a level percent of pay between now and 7/1/2033.

PENSION COST SUMMARY FOR GASB #27

Year Ended December 31	Annual Pension Cost	Total Employer Contribution	% of Annual Pension Cost Contributed	Net Pension Obligation
2006	\$ 5,257,065	\$ 4,450,585	84.7%	\$ 1,111,679
2007	7,393,679	5,291,233	71.6	3,214,125
2008	9,288,977	5,972,492	64.3	6,530,610
2009	9,841,433	TBD	TBD	TBD

SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

The information requested 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 follows:

Valuation Date	January 1, 2009			
Actuarial Cost Method	Entry-Age-Normal			
Actuarial Value of Assets	4-year smoothed market			
Amortization Method	Level percent closed			
Remaining Amortization Period	24 years, 6 months			
Actuarial Assumptions:				
Investment Rate of Return	7.00% per year			
Projected Salary Increases*	5.25% per year with a three-year service-based select period			
*Includes Wage Inflation Increases	4.00% per year			
Cost-of-Living Increases	3.00% per year			