# GOLDSTEIN & ASSOCIATES Consulting Actuaries

SPRINGFIELD FIREFIGHTERS' PENSION FUND

ACTUARIAL VALUATION AS OF FEBRUARY 28, 1991

### GOLDSTEIN & ASSOCIATES

Consulting Actuaries

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December 4, 1991

Mr. Carl L. Forn Director of Budget & Management City of Springfield Room 210 - Municipal Building Springfield, Illinois 62701

Re: Actuarial Valuation of Springfield Firefighters' Pension Fund

Dear Mr. Forn:

I am pleased to submit my actuarial report on an actuarial valuation of the Springfield Firefighters Pension Fund as of February 28, 1991.

The report consists of 10 Sections and 2 Appendices as follows:

Section A - Purpose and Summany	e No.
Section B - Data Used For Valuation  Section C - Fund Provisions	5 6 7 8 9

I would be pleased to discuss any aspects of this report with you and other interested persons.

Respectfully submitted,

Sandor Goldstein

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Fellow of the Society of Actuaries

Enrolled Actuary No. 3402

Consulting Actuaries

#### A. PURPOSE AND SUMMARY

We have carried out an actuarial valuation of the Springfield Firefighters'
Pension Fund as of February 28, 1991. The purpose of the valuation was to
determine the financial position and the annual actuarial requirements of the
pension fund. This report is intended to present the results of the
valuation. The results of the valuation are summarized below:

<ol> <li>Total actuarial liabil</li> <li>Actuarial value of asse</li> <li>Unfunded actuarial liabil</li> <li>Funded ratio</li> </ol>	ity ets pility	\$ 43,357,028 39,186,875 4,170,153 90.4%
<ul><li>5. Total normal cost</li><li>6. Annual actuarial requir</li></ul>	coment for year	\$ 1,662,215
beginning March 1, 1991 7. Amount of tax to be lev	l vied by City so	\$ 2,036,539
that total revenue will to meet annual actuaria	. be sufficient ul requirement	\$ 1,477,605

#### B. DATA USED FOR THE VALUATION

<u>Participation Data.</u> The participant data required to carry out the valuation was supplied by the pension fund. The participant data for the pension fund as of February 28, 1991 on which the valuation is based is summarized in Exhibit 1. It can be seen that there were 197 active members and 150 members receiving benefits. The total active payroll as of February 28, 1991 was \$6,774,956.

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#### Exhibit 1

#### Summary of Participant Data

1. Number of Members		
(a) Active Members		197
(b) Members Receiving		
(i) Retirement Pensions (ii) Survivor Pensions (iii) Disability Pensions		69 55
(c) Total		<u>26</u>
Andrews		<u>347</u>
2. Annual Salaries		
(a) Total Salary	\$	6,774,956
(b) Average Salary	Ą	34,391
Markey or the Committee of the Committee		34,391
3. Total Accumulated Contributions		
of Contributors	\$	4,084,403
	ې	4,004,403
4. Annual Benefit Payments Currently Being Made		
(a) Retirement Pensions (b) Survivor Pensions (c) Disability Pensions		1,156,010 242,763 402,906

4. Annual Benefit Payments Currently Being Made  (a) Retirement Pensions (b) Survivor Pensions (c) Disability Pensions  Assets. The asset values used for the valuation were based on the asset information contained in the audited financial statements of the pension fund as of February 28, 1991. For purposes of the valuation, the book value of the assets of the fund less the amount of liabilities was used. The resulting actuarial value of assets is \$39,186,875. The development of this value is cutlined in Exhibit 2.  Exhibit 2  Actuarial Value of Assets  1. Cash  2. Receivables  1. Cash  3. Investments at Cost or Amortized Cost  4. Total Assets  5. Liabilities  1. Actuarial Value of Assets (4-5)  5. Say,186,875
(a) Retirement Pensions  (b) Survivor Pensions  (c) Disability Pensions  1,156,010  242,763  402,906  Assets. The asset values used for the valuation were based on the asset information contained in the audited financial statements of the pension fund as of February 28, 1991. For purposes of the valuation, the book value of the assets of the fund less the amount of liabilities was used. The resulting actuarial value of assets is \$39,186,875. The development of this value is
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Cutlined in Exhibit 2.  Exhibit 2  Actuarial Value of Assets  1. Cash \$ 592,920  2. Receivables 1,969,059  3. Investments at Cost or Amortized Cost 36,774,883  4. Total Assets \$ 39,336,862
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Exhibit 2  Actuarial Value of Assets  1. Cash  2. Receivables  1. Mostments at Cost or Amortized Cost  4. Total Assets  Exhibit 2  Actuarial Value of Assets  \$ 592,920  1,969,059  3. Investments at Cost or Amortized Cost  36,774,883  \$ 39,336,862
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3. Investments at Cost or Amortized Cost  4. Total Assets  \$ 39,336,862
4. Total Assets \$ 39,336,862
<u> </u>
5. Liabilities
5. Liabilities 149,987
6. Actuarial Value of Assets (4-5) \$ 39,186,875
<u>9 99,100,875</u>

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#### C. FUND PROVISIONS

Our valuation was based on the provisions of the fund in effect as of February 28, 1991 as provided in Article 4 of the Illinois Pension Code. summary of the principal provisions of the fund is provided in Appendix 1.

### D. ACTUARIAL ASSUMPTIONS AND COST METHOD

The actuarial assumptions used for the February 28, 1991 valuation are the same as those used for the February 28, 1990 valuation. assumptions used are outlined below:

The UP-1984 Mortality Table, rated up 1 year, was used for Mortality Rates. the valuation.

Termination Rates. The following is a sample of the termination rates that were used:

Age	Rate of <u>Termination</u>
25 30 35 40 45	.0345 .0256 .0179 .0114 .0062
	.0000

Disability Rates. The following is a sample of the disability rates that were used:

<u>Ace</u>		Rate of Termination
25 30 35 40 45 50	enter **	.0345 .0256 .0179 .0114 .0062 .0000
Disability Rates. used:	The following is a sample of t	he disabili
Ace		Rate of <u>Disability</u>
25 30 35 40		.0019 .0020 .0024
45 50	4	.0030 .0041 .0062
	3	

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Retirement Rates. Rates of retirement for each age from 50 to 65. The following is a sample of the retirement rates that were used for the valuation:

	Rate of <u>Retirement</u>
50	.20
55	.05
60	.15
65	1.00

Salary Progression. 6.0% per year, compounded annually.

Investment Return Rate. 8.0% per year, compounded annually.

Marital Status. 85% of participants were assumed to be married.

Spouse's Age. The age of the spouse was assumed to be 4 years younger than the age of the employee.

Actuarial Value of Assets. The book value of the assets of the fund was used.

Actuarial Cost Method. The entry age actuarial cost method was used with costs allocated on the basis of earnings.

#### E. ACTUARIAL LIABILITY

The actuarial liability as determined under the valuation for the various classes of members is summarized in Exhibit 3. The total actuarial liability is then compared with the actuarial value of assets in order to arrive at the unfunded actuarial liability. (The actuarial terms used in this report are defined in Appendix 2.)

As of February 28, 1991 the total actuarial liability is \$43,357,028 the actuarial value of assets is \$39,186,875, and the unfunded actuarial liability is \$4,170,153. The ratio of the actuarial value of assets to the actuarial liability, or funded ratio, is 90.4%

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Note that

#### Exhibit 3

#### Actuarial Liability as of February 28, 1991

### Actuarial Liability For Members Receiving Benefits

	1. Actuarial Liability For Members Receiving Benefits	.·
	(a) Retirement Pensions (b) Survivor Pensions (c) Disability Pensions (d) Total	\$ 13,463,745 1,815,555 5,448,676 20,727,976
	2. Actuarial Liability For Active Members	\$ 22,365,871
	3. Actuarial Liability For Inactive Members	263,181
	4. Total Actuarial Liability	\$ 43,357,028
	5. Actuarial Value of Assets	\$ 39,186,875
Fig.	6. Unfunded Actuarial Liability	\$ 4,170,153
The state of the s	7. Funded Ratio	90.4%
是一个人,我们是一个人的人,我们就是一个人的人,我们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们	The net actuarial experience during the period March February 28, 1991 resulted in an increase in the fund's unfunded \$202,293. This increase in unfunded liability is a result of of gains and losses. The financial effect of the most significances is illustrated in Exhibit 4.  The net rate of investment return earned by the fund during approximately 8.4%, in comparison to the assumed rate of 8.0%. in a decrease in unfunded liability of \$145,022.  Salaries increased at an average rate of approximately 4.6% durin comparison to the assumed rate of 6.0%. This resulted in the unfunded liability of \$312,820.  The various other aspects of the fund's experience resulted in in the unfunded liability of \$661,135. The aggregate financial the fund resulted in an increase in the unfunded liability of \$6	several kinds cant gains and the year was This resulted ring the year, a decrease in a net increase experience of
	5 .	

### RECONCILIATION OF CHANGE IN UNFUNDED LIABILITY

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### Exhibit 4

### Reconciliation of Change in Unfunded Actuarial Liability Over the period March 1, 1990 to February 28, 1991

1.	Unfunded Liability as of March 1, 1990	\$	2 066 045
2.	Decrease in Unfunded Liability Due to Investment Return Higher Than Assumed	ş	1,200,000
3.	Decrease in Unfunded Liability Due to Salary Increases Lower Than Assumed		145,022
4:	Increase in Unfunded Liability Due to Other Sources		312,820
5.	Net Increase in Unfunded Liability for the Year (4-2-3)		661,135
6.	Unfunded Liability as of February 28, 1991 (1+5)		203,293
		\$	4,170,153

#### NORMAL COST

The normal cost for the year beginning March 1, 1991 is developed in Exhibit 5. For the year beginning March 1, 1991, the total normal cost is estimated to be \$1,662,215, which can be expressed as 24.53% of payroll.

#### Exhibit 5

## Normal Cost For Year Beginning March 1, 1991

1.	Basic Retirement Pension	Dollar Amount	Per Cent of Payroll
5. 6.	Annual Increases in Pension Annual Increases in Pension Survivor's Pension Disability Pension Refunds Administrative Expenses Total Normal Cost	\$ 816,273 254,075 281,943 250,325 18,674 40,925 \$ 1,662,215	12.05% 3.75 4.16 3.69 .28 .60 24.53%

Note. The above normal cost figures have been adjusted to include interest to the end of the year, as payments will not be made until the end of the year. The figures are based on a total active payroll of \$6,774,956 as of

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## H. ANNUAL ACTUARIAL REQUIREMENTS FOR YEAR BEGINNING MARCH 1, 1991

According to Section 4-118 of the Illinois Pension Code, the city council shall annually levy a tax which, when added to employee contributions, will produce an amount sufficient to meet the annual actuarial requirements of the pension fund. Section 4-118 defines the annual actuarial requirements of the pension fund to be equal to (1) the normal cost of the pension fund, plus (2) the annual amount required to amortize the fund's unfunded actuarial liability over a period of 40 years subsequent to January 1, 1980.

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The annual actuarial requirements of the pension fund for the year beginning March 1, 1991 and the amount of tax to be levied for the year are developed in Exhibit 6. As can be seen from Exhibit 6, for the year beginning March 1, 1991, the annual actuarial requirements of the pension fund amount to \$2,036,539, or 30.06% of payroll. Employee contributions for the year are estimated to be \$558,934, or 8.25% of payroll. The amount of tax to be levied by the City so that total revenues will be sufficient to meet the annual actuarial requirement is therefore \$1,447,605, or 21.81% of payroll.

Exhibit 6
Annual Actuarial Requirements for Year Beginning March 1, 1991

1.	Total Normal Cost	<u>A</u> :	nnual Amount	Per Cent of Payroll
2.	Annual Amount Required to Amortize Unfunded Liability Over 40	\$	1,662,215	24.53%
3.	Annual Actuarial Requirement for Year Beginning March 1 1001 (12)	-	374,324	<u>5.53%</u>
4. 5.	Amount of Tax to be Levied by City so that Total Revenue will	\$	2,036,539 558,934	30.06% 8.25%
	to Meet Annual Actuarial Requirements (3-4)	\$	1,477,605	21.81%

<u>Note.</u> The above figures have been adjusted to include interest to the end of the year, as payments will not be made until the end of the year.

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## ACTUARIAL PRESENT VALUE OF CREDITED PROJECTED BENEFITS

### Exhibit 7

## Actuarial Present Value of Credited Projected Benefits

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	\$ 100	I. ACTUARIAL PRESENT VALUE OF CREDITED PROJECTED BENEFITS	
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		pension information by public employee retirement systems.	
	1 85	GADB STatement No	
		of credited projected benefits as the standardized measure pension obligation. This measure represents the discounts	al present tma.
3		pension obligation. This mass the standardized measure	of the account
·		pension obligation. This measure represents the discounts amount of benefits estimated to be payable in the future	entrope of the
		amount of benefits estimated to be payable in the future employee service to date, computed by attributing an equal be each year of service of the employee.	~ Agrae of CU
		each year of service of the employee.	enefit energy o
		and the emptoyee.	THETTE WINDUIT T
	F. V	We have therefore calculated the actuarial present value of creare shown in Fyhibit 7	
	F 1	penefits as part of the actuarial present value of cre	editod mane
	E e	penefits as part of the actuarial valuation. The results of coresent value of creare shown in Exhibit 7. It can be seen from Exhibit 7 that to \$42.914.120.	allied projected
	å r	present value of credited projected benefits as of February 2 penefits amounts to \$2,700 and the unfunded actuarial present value of green projected benefits amounts to \$2,700 and the unfunded actuarial present value of green projected benefits amounts to \$2,700 and the unfunded actuarial present value of green projected benefits amounts to \$2,700 and the unfunded actuarial present value of green projected benefits amounts to \$2,700 and the unfunded actuarial present value of green projected benefits as the second projecte	t the
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1346	:	<u>Exhibit 7</u>	
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#6 }##	1.	For Members in David	<u>us</u>
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1,5	2.	For Current II	\$ 20,991,157
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84		Accumulated Employee Contributions	
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i.		Employer-Financed Nonvested	10,487,011
تو	2		7,351,549
į.	3.	Total Actuarial Present Value of	
\$1. \$1.		Credited Projected Benefits	
<u>h</u>	_		\$ 42,914,120
ŗ	4.	Net Assets Available for Benefits, at Cost	· · · · · · · · · · · · · · · · · · ·
ETFE		Tor Dererits, at Cost	\$ 39 106 075
F	5.	Unfunded Actuarial Present Value	\$ 39,186,87 <u>5</u>
1		Credited Projected Benefits	
i dett		and perietits	\$ 3,727.245
Ē			\$ 3,727,245
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CERTIFICATION

This actuarial report has been prepared in accordance with generally accepted actuarial principles and practices and to the best of my knowledge, fairly represents the financial condition of the Springfield Firefighters' Pension Fund as of February 28, 1991

Respectfully submitted,

Sandor Goldstein

Fellow of the Society of Actuaries

Enrolled Actuary No. 3402

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#### Appendix 1

### Summary of Principal Provisions

### Pension Benefits

A firefighter age 50 or over who has at least 20 years of creditable service and is no longer in service as a firefighter is entitled to a monthly pension of 1/2 of the monthly salary attached to the firefighters' rank at the date of retirement. The pension is increased 1/12 of 2% of such monthly salary for each additional month over 20 years of service through 30 years of service, and 1/12 of 1% of such monthly salary for each additional month over 30 years of service, to a maximum of 75% of such monthly salary.

### Separation Benefits

A firefighter who is separated from service having at least 10 years but less than 20 years of creditable service is entitled upon attainment of age 60 to a pension based on the monthly salary attached to his or her rank in the fire service on the date of separation of service, according to the following schedule:

- For 10 years of service, 15.0% of salary; For 11 years of service, 17.6% of salary;
- For 12 years of service, 20.4% of salary;
- For 13 years of service, 23.4% of salary;
- For 14 years of service, 26.6% of salary;
- For 15 years of service, 30% of salary;
- For 16 years of service, 33.6% of salary;
- For 17 years of service, 37.4% of salary; For 18 years of service, 41.4% of salary;
- For 19 years of service, 45.6% of salary;

### Annual Increases In Pension

The monthly pension of a firefighter who retires after January 1, 1977, shall, upon either the first of the month following the first anniversary of the date of retirement, if 55 years of age or over at retirement date, or upon the first day of the month following attainment of age 55 if it occurs after the first anniversary of retirement, be increased by 3% of the originally granted monthly pension for each full year that has elapsed since the pension began, and by an additional 3% in each January thereafter.

The monthly pension of a firefighter who is receiving a disability pension shall be increased in January of the year following the year the firefighter attains age 60 by 3% of the originally granted monthly pension for each year that pension payments have been made. In each January thereafter, the firefighter shall receive an additional increase of 3% of the original monthly pension.

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### Disability Pension

If a firefighter, as a result of an act of duty, or an occupational disease, is found to be disabled for service in the fire department, the firefighter shall be granted a disability pension of 65% of the salary attached to the rank of the firefighter at the date of removal from the municipality's payroll. If the disability is the result of any cause, and the firefighter has a minimum of 7 years of creditable service, the disability pension is 50% of monthly salary.

In addition, any firefighter disabled by an act of duty or an occupational disease is entitled to receive a child's disability benefit of \$20 a month for each dependent minor child, provided that the total benefits received does not exceed 75% of the salary he or she was receiving at the date of removal from the municipality's payroll.

### Pension To Survivors

Upon the death of an active, disabled, or retired firefighter, his or her surviving spouse, children, or dependent parents, are entitled to a survivor's pension as follows: To the surviving spouse, a monthly pension of 40% of the firefighter's monthly salary, and to the guardian of each minor child, 12% of such monthly salary for each child, until attairment of age 18.

## Contributions By Firefighter

Firefighters are required to contribute to the pension fund 8 1/4% of their salary as a condition of participation in the pension fund.

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#### Appendix 2

### Glossary of Terms used in Report

- 1. <u>Actuarial Present Value</u>. The value of an amount or series of amounts payable at various times, determined as of a given date by the application of a particular set of actuarial assumptions.
- 2. Actuarial Cost Method or Funding Method. A procedure for determining the actuarial present value of pension plan benefits and for determining an actuarially equivalent allocation of such value to time periods. Usually in the form of a normal cost and an actuarial accrued liability.
- 3. Normal Cost. That portion of the actuarial present value of pension plan benefits which is allocated to a valuation year by the actuarial cost method.
- 4. <u>Actuarial Accrued Liability or Accrued Liability</u>. That portion, as determined by a particular actuarial cost method, of the actuarial present value of pension benefits which is not provided for by future normal costs.
- 5. Actuarial Value of Assets. The value assigned by the actuary to the assets of the pension plan for purposes of an actuarial valuation.
- 6. <u>Unfunded Actuarial Liability</u>. The excess of the actuarial liability over the actuarial value of assets.
- 7. Entry Age Actuarial Cost Method. A method under which the actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age. The portion of this actuarial present value allocated to a valuation year is called the normal cost. The portion of this actuarial present value not provided at a valuation date by the actuarial present value of future normal costs is called the actuarial liability.
- 8. <u>Actuarial Assumptions</u>. Assumptions as to future events affecting pension costs.
- 9. <u>Actuarial Valuation</u>. The determination, as of a valuation date, of the normal cost, actuarial liability, actuarial value of assets, and related actuarial present values for the pension plan.
- 10. Accrued Benefit or Accumulated Plan Benefits. The amount of an individual's benefit as of a specific date determined in accordance with the terms of a pension plan and based on compensation and service to that date.
- 11. <u>Vested Benefits</u>. Benefits that are not contingent on an employee's future service.