LABORERS' AND RETIREMENT BOARD

EMPLOYEES' ANNUITY AND

BENEFIT FUND ANNUAL STATEMENT

AS OF DECEMBER 31, 1967

DONALD F. CAMPBELL

CONSULTING ACTUARY

221 NORTH LA SALLE STREET • SUITE 3117

CHICAGO, ILLINOIS 60601

TELEPHONE STATE 2-1335

March 17, 1969

The Retirement Board of the Laborers' and Retirement Board Employees' Annuity and Benefit Fund of Chicago Chicago, Illinois

Gentlemen:

This is to certify that the Annual Statement of the Laborers' and Retirement Board Employees' Annuity and Benefit Fund as of December 31, 1967, appended hereto, consisting of the exhibits as stated hereinafter, is to the best of my knowledge and belief a true and correct statement of the affairs and conditions of said Fund for the calendar year 1967.

Exhibit	Title	Page
A	Assets and Liabilities	12
В	Income and Expenditures	34
C	Gain and Loss	5 6
D	Comparative Analysis Assets and Liabilities	78
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${f F}$	Taxes Receivable	10
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This statement has been prepared from the books of the Fund as substantiated by our letters of recommendation to the Retirement Board. The liabilities have been computed in accordance with the provisions of the Act with the excess liability for the minimum annuity estimated as follows:

The liability for the excess liability for the minimum annuity provision and the liability for the 1-1/2% increase in the retirement annuity provision, both shown in the Prior Service Annuity Fund Account, have been estimated on the basis of actuarial tables based on an analysis of the experience of a Fund with a similar experience over the past six years and a 4% interest assumption. It is also based on 1967 salary schedules. Selected factors used are shown on page eleven of this report.

If all the Fund liabilities were computed on the basis of four per cent interest tables, the Combined Annuity Mortality Table, the above stated actuarial tables, salary scales, and an entry age normal method of funding for an average age at entrance into the service of thirty-five, I estimate that the total amount shown in the Liability Statement for the Prior Service deficiency, or unfunded liability, should be increased by about \$800,000.00.

On this basis of computation a minimum annual tax levy of about \$4,270,000.00, I estimate, would provide sufficient funds to pay for the cost of the current service as it is rendered plus an amount equal to the interest on the unfunded liability. This amount includes a 7-1/2% reserve for loss and cost of collection. This represents an increase over the present tax levy based on 1967 assessed values of about \$193,000.00, which increase amounts to about four-tenths of one per cent of the annual salary roll for the year 1967.

Due to the large number of employees who have not filed information sheets with the office and for whom the dates of births are not known the estimated unfunded liability is subject to possibly a large adjustment when such dates of births are known. An average liability for these employees has been used based on the average liability for the employees for whom the dates of births are known.

The preceding cost figures are greater than the corresponding figures shown in my reports for prior years. A large part of this increase is due to the net effect of the increase in salaries. A change in the actuarial factors also accounted for a part of the increase. The increased cost is reflected primarily in the increase for the current costs. The increase in the excess liability for the minimum annuity was not as great as it has been for past years due to a change in the method of estimating the liability for those employees with unknown dates of births as well as due to the change in current costs. These cost figures indicate that under present conditions the fund cannot expect to liquidate the unfunded liability.

Although a 4% interest assumption was used which decreased costs, a salary scale was used which increased more rapidly than the previous one and greater rates of retirement were used to reflect actual experience with the net effect of greater costs.

Future changes in the factors affecting costs will result in different tax levy requirements. The rate of future retirements and the amount of future salaries are major factors in this respect. The rate of interest earnings on the Fund's Assets is also a highly important factor. The gain and loss exhibit indicates improvement in mortality rates and greater number of members retiring.

Page Three.

If retirement rates become greater and mortality rates continue to decrease and other factors remain practically the same as at present, a tax levy in excess of the necessary increase stated above will result.

Salary Scales used in the valuation computations assume a future increase of 1-3/4% a year in the total salary roll.

Withdrawal rates with refunds have been increasing which may result in greater gains to the Fund than anticipated in the figures.

If it is assumed that general salary levels will increase in the future, as they have in the past several years, the cost estimates stated herein will need to be revised upward with the extent of the increase depending on the extent of the increase in general salary levels over the 1-3/4% a year increase used in the computation.

The rate of interest earned on invested assets for the year 1967 was 4.17% excluding the decrease in book value at date of sale of assets.

Respectfully submitted,

2 Caple,

Actuary.

DFC*bb

LABORERS' AND RETIREMENT BOARD

EMPLOYEES' ANNUITY AND

BENEFIT FUND

BALANCE SHEET

AS OF

DECEMBER 31, 1967

ASSETS

And

LIABILITIES

ASSETS

AS OF DECEMBER 31, 1967

CASH ON DEPOSIT		\$ 585,536.56	
ACCOUNTS RECEIVABLE: Salary Deductions Accrued Miscellaneous from Employees Total Accounts Receivable	\$ 331,379.75 79,985.86	411,365.61	
INTEREST RECEIVABLE: Accrued Interest on Bonds		666,925.71	,
INVESTMENTS: BondsPar Value BondsPremiums and Discounts Total Investments	\$80,667,000.00 (1,412,657.50)	79 , 254 , 342 . 50	
TAXES RECEIVABLE - (Exhibit F, Page 10) City: Uncollected Taxes Reserve for Loss and Cost of Collection Net Taxes Receivable Park District: Uncollected Taxes Reserve for Loss and Cost of Collection Net Taxes Receivable	\$ 6,554,399.89 2,691,100.53 \$ 42,382.46 18,185.81	3,863,299.36 24,196.65	
GROSS LEDGER ASSETS			\$84,805,666.39
LESSACCOUNTS PAYABLE: Miscellaneous to Employees Military Service Deductions Excess Total		\$ 340,200.47	341,758.18

LIABILITIES AND FUND BALANCE

AS OF DECEMBER 31, 1967

AD OF DECI	EMBER 31, 1901		
FOR SERVICE AFTER JULY 1, 1935: LIABILITY RESERVES: ANNUITY PAYMENT FUND ACCOUNT: Employee Annuitants Employee Annuities Fixed Widow Annuitants Wives' Annuities Fixed Total Annuity Payment Fund	\$ 7,107,390.60 3,436,833.00 3,607,393.49 1,715,407.07	\$15,867,024.16	
SALARY DEDUCTION FUND ACCOUNT: Employees Wives of Employees Total Salary Deduction Fund	\$26,591,822.52 4,382,487.56	30,974,310.08	
CITY CONTRIBUTIONS FUND ACCOUNT: Employees Wives of Employees Supplemental Annuities Total City Contributions Fund	\$27,463,695.47 8,002,479.86 12,146.70	35,478,322.03	
Annuity Payment Fund Account Child's Annuity Fund Account Duty Disability Fund Account Expense of Administration Account Investments and Interest Fund Account Ordinary Disability Fund Account Total Surplus Reserves	\$ 2,380,053.62 0 0 0	2,380,053.62	
TOTAL LIABILITY AND SURPLUS RESERVES FOR SERVICE AFTER JULY 1, 1935			\$84,699,709.89
FOR SERVICE PRIOR TO JULY 1, 1935: PRIOR SERVICE FUND ACCOUNT: Estimated Excess Minimum Annuity Provision Employee Annuitants Employee Annuities Fixed Widow Annuitants Wives' Annuities Fixed Contributions for Employees Contributions for Wives Salary Deductions for 1-1/2% Annuity Total Prior Service Fund	\$11,379,638.47 7,201,026.87 109,032.24 714,338.67 389,875.01 137,305.13 63,613.11 826,452.66	\$20,821,282.16	
DEDUCT: Obligations of Fund for Price Service Fund Liabilities	or	(21,057,083.84)	(235,801.68)
TOTAL NET LIABILITIES AND FUND BALANCES DECEMBER 31, 1967		•	\$84,463,908.21

LABORERS' AND RETTREMENT BOARD

EMPLOYEES' ANNUITY AND

BENEFIT FUND

INCOME

YEAR 1967

INCOME

<u>And</u>

EXPENDITURES

INCOME

SALARY DEDUCTIONS: Employees Wives of Employees 1-1/2% Retirement Annuity Total Salary Deductions	\$2,932,083.40 599,682.05 244,257.00	\$3,776,022.45	
PAYMENTS BY EMPLOYEES FOR TEMPORARY SERVICE AND REFUND REPAYMENTS		22,736.03	·
CITY CONTRIBUTIONS (\$3,427,844.18) PARK CONTRIBUTIONS (\$ 22,080.00) Employee Annuities Wife Annuities Child Annuities Duty Disability Ordinary Disability Expense of Administration Interest on Income Deficiency in Current Requirements Total Contributions	\$2,800,377.19 806,304.74 54,142.68 105,749.50 340,396.16 153,859.99 61,869.49 (872,775.57)	3,449,924.18	
INCOME ON INVESTMENTS: Bond Interest	•	3,141,952.22	
TOTAL INCOME YEAR 1967	· .		\$10,390,634.88
TOTAL EXPENDITURES YEAR 1967	,		4,237,523.11
EXCESS INCOME OVER EXPENDITURES			\$ 6,153,111.77
ADD: INCREASE IN TAXES RECEIVABLE FO	OR PRIOR YEARS		27,143.03
NET EXCESS INCOME OVER EXPENDITURES Y	rear 1967		\$ 6,180,254.80

EXPENDITURES

BENEFITS PAID: AnnuitiesEmployees AnnuitiesWidows Compensation Widows' Annuities Child's Annuities Duty Disability Benefits Ordinary Disability Benefits Total Benefits Paid Less: Reimbursement Reciprocal Account Net Annuities Paid	\$2,188,380.35 516,938.55 5,617.66 54,142.68 99,165.16 342,029.64	\$3,206,274.04 1,856.15	\$3,204,417.89
EXPENSE OF ADMINISTRATION: Salaries Legal Services Audit Systems Study Medical Examinations Medical Services Actuarial Department Printing Postage Telephone Rent Premiums on Surety Bonds Office Supplies and Miscellaneous Office Equipment and Repairs Insurance Department Fee Total Expense of Administration	\$ 69,743.40 3,600.00 3,500.00 5,625.00 3,735.50 140.00 51,344.58 3,178.95 1,755.00 609.77 7,231.96 319.00 2,270.01 656.82 150.00	\$ 153 , 859 . 99	
REFUNDS		879,245.23	1,033,105.22
TOTAL EXPENDITURES YEAR 1967			\$4,237,523.11

LABORERS' AND RETTREMENT BOARD

EMPLOYEES' ANNUITY AND

BENEFIT FUND

GAIN AND LOSS

YEAR 1967

GAINS

<u>And</u>

LOSSES

GAIN AND LOSS

SURPLUS BALANCES DECEMBER 31, 1967	
Annuity Payment Fund	\$ 2,380,053.62
Expense Fund	0
Investment and Interest Fund	0
Ordinary Disability Fund	. 0
Prior Service Annuity Fund	(21,057,083.84)
Total	\$(18,677,030.22)

SURPLUS BALANCES JANUARY 1, 1967	
Annuity Payment Fund	\$ 2,180,679.16
Expense Fund	0
Investment and Interest Fund	0
Ordinary Disability Fund	0
Prior Service Annuity Fund	(20,539,098,59)
Total	(18,358,419.43)

ESTIMATED ANALYSIS OF GAIN AND LOSS

GAIN BECAUSE OF ANNUITY AND BENEFIT PURPOSES: Mortality Employee Annuitants Mortality Employees' Annuities Fixed Mortality Widow Annuitants Mortality Wives' Annuities Fixed Excess Contributions on Refunds Age and Service	P.S.A.F. \$(55,323.21) 25,047.14 178.90 (189,548.33) 707,168.89	\$(169,536.11) (54,153.18) (46,883.57)	•
Excess Contributions when Annuities Are Fixed Refunds After Fixed Salary Deductions After Fixed	91,244.23	571,848.79 (50,692.06) 163,915.42	
Total Gain Because of Safeguards	<u>\$ 578,767.62</u>	<u>\$ 467,659.71</u>	\$1,046,427.33
INTEREST ON BALANCE OF JANUARY 1, 1967 Annuity Payment Fund Account Gain in Investment and Interest Fund Account Total Gain Because of Surplus Reserve Purposes		\$ 87,227.17 556,305.59	643,532.76
TAX REQUIREMENT PURPOSES: Interest on Deferred Obligations City Current Contribution Deficiency Total Tax Requirement Purposes		\$(896,435.82) (872,775.57)	(1,769,211.39)
NET GAIN FOR YEAR 1967 BEFORE SETTING UP PRESENT VALUE OF EXCESS LIABILITY MINIMUM ANNUITY			\$(79,251.30)
DEDUCT: Increase in Present Value Excess Minimum Annuity	3		(266,502.52)
ADD: Increase in Taxes Receivable Prior Years			27,143.03
TOTAL NET (LOSS) YEAR 1967		ı	<u>\$(318,610.79</u>)

LABORERS' AND RETTREMENT BOARD

EMPLOYEES * ANNUITY AND

BENEFIT FUND

COMPARATIVE ANALYSIS

YEAR 1967

ASSETS

And

LIABILITIES

COMPARATIVE ANALYSIS

ASSETS

			Increase
	Jan. 1, 1967	Dec. 31, 1967	or (Decrease)
CASH ON DEPOSIT	\$ 199,265.48	\$ 585,536.56	\$ 386,271.08
ACCOUNTS RECEIVABLE: Salary Deductions Accrued Miscellaneous from Employees Total Accounts Receivable	\$ 405,287.46	\$ 331,379.75	\$ (73,907.71)
	84,190.47	79,985.86	(4,204.61)
	\$ 489,477.93	\$ 411,365.61	\$ (78,112.32)
INTEREST RECEIVABLE: Accrued Interest on Bonds Accrued Interest on Tax Anticipation Warrants Due Bond Interest Receivable Total Interest Receivable	\$ 590,886.64	\$ 666,925.71	\$ 76,039.07
	0	0	0
	0	0	0
	\$ 590,886.64	\$ 666,925.71	\$ 76,039.07
INVESTMENTS: BondsPar Value BondsPremiums and Discounts Total Investments	\$74,792,000.00	\$80,667,000.00	\$5,875,000.00
	(1,308,216.35)	(1,412,657.50)	(104,441.15)
	\$73,483,783.65	\$79,254,342.50	\$5,770,558.85
TAXES RECEIVABLE: City: Uncollected Taxes Reserve for Loss and Cost of Collection Net Taxes Receivable	\$ 6,435,452.57	\$ 6,554,399.89	\$ 118,947.32
	2,614,675.11	2,691,100.53	76,425.42
	\$ 3,820,777.46	\$ 3,863,299.36	\$ 42,521.90
Park District: Uncollected Taxes Reserve for Loss and Cost of Collection Net Taxes Receivable	\$ 40,975.24	\$ 42,382.46	\$ 1,407.22
	16,477.26	18,185.81	1,708.55
	\$ 24,497.98	\$ 24,196.65	\$ (301.33)
GROSS LEDGER ASSETS	\$78,608,689.14	\$84,805,666.39	\$6,196,977.25
LESSACCOUNTS PAYABLE: Miscellaneous to Employees Military Service Deductions Excess from Refunds	\$ 323,478.02	\$ 340,200.47	\$ 16,722.45
Total Accounts Payable NET LEDGER ASSETS	\$ 325,035.73	\$ 341,758.18	\$ 16,722.45
	\$78,283,653.41	\$84,463,908.21	\$6,180,254.80

COMPARATIVE ANALYSIS

LIABILITIES AND FUND BALANCES

			Increase
	Jan. 1, 1967	Dec. 31, 1967	or (Decrease)
FOR SERVICES AFTER JULY 1, 1935:	Jan. 1, 1907	Dec. 31, 1901	(Decrease)
LIABILITY RESERVES:			
ANNUITY PAYMENT FUND ACCOUNT:			
Employee Annuities	\$ 6,540,870.38	\$ 7,107,390.60	\$ 566,520.22
Employees' Annuities Fixed	3,042,869.04	3,436,833.00	393,963.96
Widow Annuitants	3,383,686.64	3,607,393.49	223,706.85
Wives' Annuities Fixed	1,570,435.03	1,715,407.07	144,972.04
Total Annuity Payment Fund	\$ 14,537,861.09	\$15,867,024.16	\$1,329,163.07
SALARY DEDUCTION FUND ACCOUNT:			
Employees	\$ 24,553,877.28	\$26,591,822.52	\$2,037,945.24
Wives of Employees	<u>3,886,627.34</u>	4,382,487.56	495,860.22
Total Salary Deduction Fund	\$ 28,440,504.62	\$30,974,310.08	\$2 , 533 , 805 . 46
CITY CONTRIBUTION FUND ACCOUNT:			
Employees	\$ 25,526,144.63	\$27,463,695.47	\$1,937,550.84
Wives of Employees	7,394,702.88	8,002,479.86	607,776.98
Supplemental Annuities	10,222.47	12,146.70	1,924.23
Total City Contribution Fund	\$ 32 , 931 , 069.98	\$35 , 478 , 322 . 03	\$2,547,252.05
SURPLUS RESERVES:			
Annuity Payment Fund Account	\$ 2,180,679.16	\$ 2,380,053.62	\$ 199,374.46
Child's Annuity Fund Account	0	0	0
Duty Disability Fund Account	0	0	0
Investment and Interest Account	0	0	0
Expense of Administration Account	0	0	0
Ordinary Disability Fund Account	*************************************	* 0 200 052 (0	4 700 200 10
Total Surplus Reserves	\$ 2,180,679.16	\$ 2,380,053.62	\$ 199,374.46
TOTAL LIABILITY AND SURPLUS RESERVES FOR SERVICE AFTER JULY 1, 1935	¢ 78 000 111 85	48h 600 700 80	\$6 600 505 NI
LOW SEWATCE HETER SOUT T' 1822	\$ 78,090,114.85	\$84,699,709.89	\$6,609,595.04
FOR SERVICE PRIOR TO JULY 1, 1935:	•	•	
PRIOR SERVICE FUND ACCOUNT:			
Estimated Excess Minimum			
Annuity Provision	\$ 11,582,802.16	\$11,379,638.47	\$ (203,163.69)
Employee Annuitants	7,208,465.71	7,201,026.87	(7,438.84)
Employees' Annuities Fixed	89,804.40	109,032.24	19,227.84
Widow Annuitants Wives' Annuities Fixed	693,721.24	714,338.67	20,617.43 133,575.01
Contributions for Employees	256,300.00 200,723.93	389,875.01	(63,418.80)
Contributions for Wives	89,577.10	137,305.13 63,613.11	(25,963.99)
Salary Deductions for l_{2}^{1} % Annuity	611,242.61	826,452.66	215,210.05
Total Prior Service Fund	\$ 20,732,637.15	\$20,821,282.16	\$ 88,645.01
DEDUCT: (PER CONTRA):	T 310-30014-7	Ψ-0,0,0-,0	Ψ 00901280 2
Obligations of City for Prior			
Service Credits	(20,539,098.59)	(21,057,083.84)	(517,985.25)
NET LIABILITIES FOR SERVICE	······································		
PRIOR TO JULY 1, 1935	\$ 193 , 538 . 56	\$(235,801.68)	\$ (429,340.24)
TOTAL LIABILITIES AND FUND BALANCES	\$ 78,283,653.41	\$84,463,908.21	\$6,180,254.80

CASH RECONCILIATION

RECEIPTS AND DISBURSEMENTS

BALANCE JANUARY 1, 1967 PER BOOKS		\$1,99,265.48
RECEIPTS:	. *	•
Salary Deductions		
Errors in Deductions \$ 6,792.		
Salary Deductions 3,816,821. Interest on Bonds 3,009,557.		
Installments on Taxes	•/-	
ReceivableCity 3,412,185	.07	
Installments on Taxes ReceivablePark 22,661.	57	
Federal Funds	•) (0	
Treasurer's Receipts 25,083.	.81	•
Cancelled Checks 9,425		
Bonds Matured 600,000 Bonds Sold Par Value	•00 0	
Discount on Bonds Sold	0	
Miscellaneous Receipts 935	. 60	
Reimbursement Forged Checks	0	
Total Receipts	\$10,903,463.22	
DISBURSEMENTS:	•	
AnnuitiesEmployees \$2,195,544	.12	
AnnuitiesWidows 523,604 AnnuitiesChildren 54,142	•33 68	
Ordinary Disability Benefits 289,024	. 64	
Duty Disability Benefits 80,897	•61	
Refunds 905,767		
Operating Expenses 153,859 Securities PurchasedPar Value 6,475,000	•99 •00	
Premium Bonds Purchased and		
Exchanged (214,235		
Accrued Interest Purchased 53,438 Forged Checks 148	•68 <u>.</u>	
The state of the s		
Total Disbursements	10,517,192.14	
EXCESS DISBURSEMENTS OVER RECEIPTS		386,271.08
BALANCE, DECEMBER 31, 1967 PER BOOKS		\$585 , 536 . 56
OUTSTANDING CHECKS, DECEMBER 31, 1967		253,366.82
BALANCE, DECEMBER 31, 1967 PER TREASURER		\$838,903.38

TAXES RECEIVABLE

DECEMBER 31, 1967

TAXES RECEIVABLE-CITY:

Year	Uncollected Taxes 12/31/67	Estimate For Loss and Cost Of Collection 12/31/66	Additional Estimate Set Up 12/31/67	Total Estimate For Loss and Cost of Collection 12/31/67	Net Accounts Receivable Taxes 12/31/67
1958 1959 1960 1961 1962 1963 1964 1965 1966	\$ 190,000.14 170,596.55 352,513.47 281,929.00 327,808.15 318,441.69 332,032.26 418,043.20 437,117.84 3,725,917.59	\$ 188,044.90 167,744.83 277,592.22 297,118.77 298,074.86 298,074.01 298,077.57 298,079.54 298,080.00	\$ (27,854.88) (4.70) 298,073.41	\$ 188,044.90 167,744.83 277,592.22 269,263.89 298,074.86 298,074.01 298,077.57 298,079.54 298,075.30 298,073.41	\$ 1,955.24 2,851.72 74,921.25 12,665.11 29,733.29 20,367.68 33,954.69 119,963.66 139,042.54 3,427,844.18
Total'	\$6,554,399.89	\$2,420,886.70	\$270,213.83	\$2,691,100.53	\$3,863,299.36
TAXES RECE	VABLEPARK DIS	TRICT:			
1959 1960 1961 1962 1963 1964 1965 1966	\$ 2,762.20 2,727.40 1,503.61 2,007.64 2,117.64 2,100.31 2,392.12 2,771.54 24,000.00	\$ 2,744.26 2,400.00 1,733.00 1,920.00 1,920.00 1,920.00 1,920.00	\$ 17.94 (229.39)	\$ 2,762.20 2,400.00 1,503.61 1,920.00 1,920.00 1,920.00 1,920.00 1,920.00	\$ 0 327.40 0 87.64 197.64 180.31 472.12 851.54 22,080.00
Total ,	\$ 42,382.46	\$ 16,477.26	\$ 1,708.55	<u>\$ 18,185.81</u>	\$ 24,196.65

SERVICE TABLE FACTORS USED IN ESTIMATING UNFUNDED LIABILITY BY ENTRY AGE NORMAL METHOD RATES OF RETTREMENTS USED IN COMPUTATIONS IN PERCENT -- SELECTED AGES

Ages At Retirement	_Male_	•	<u>Female</u>
55 60 65	3.7% 14.5 25.7	*.	8.2% 20.1 31.5
70 75	28.8 100.0		23.4 100.0

SALARY SCALE 1-3/4% A YEAR COMPOUNDED -- SELECTED AGES

	•	•	Male and Female
25 30 35 40 45 50 55 60 65 70 75			1.072 1.169 1.275 1.390 1.516 1.654 1.804 1.967 2.145 2.340 2.552

RATES OF WITHDRAWAL SELECTED AGES IN PERCENT

	Male	V :	Female
25	18.5%	•	18.5%
30	16.0		13.0
35	3.9		7.5
40	3.3		6.5
45	0.0	•	2.1
50	0.0		0.0

Combined Annuity Mortality Table For Both Active And Retired
4% Interest Assumption

Disability Benefits, Child's Annuities, Expense of Administration, Compensation Annuities At Current Annual Cost